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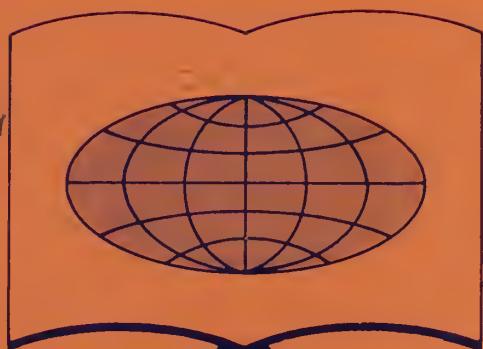
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# Pesticides DOCUMENTATION BULLETIN

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Volume 5  
October 3, 1969

Number 20



*Use Pesticides Safely*  
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U.S. DEPARTMENT OF AGRICULTURE

# PESTICIDES DOCUMENTATION BULLETIN

A Bi-Weekly Publication of U.S. Department of Agriculture

Volume 5  
October 3, 1969  
Number 20

## OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

## FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

**Citations:** Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

**Subject Index:** Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

**Biographical Index:** Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

**Author Index:** Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

**Organizational Index:** Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

## Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

- Compound Tested
- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
- Crops or Weeds tested with phytotoxicity ratings
- Associated documentation

Note: Items subject to proprietary restriction will be suppressed when appropriate.

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## ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

**PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.**

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

**CAUTION:** Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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MASS-REARING OF PHYTOSEIULUS RIEGELI DOSSES FOR USE IN COMMERCIAL HORTICULTURE.

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Sep 1968 464.8 P692

Cucumbers, Phytoseiulus riegelei, Plant pest control, Research, *Tetranychus urticae*.

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11715-69

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J C Arrand W S Peters

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11717-69

CONTRIBUTION TO THE KNOWLEDGE OF THE FAUNA OF THE GENUS BOMBUS. LATR. OF BIESZCZADY MOUNTAINS. (PO)

J Banaszak

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Bombus, Surveys, English abstract.

11718-69

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K E J Barrett

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Formica rufa, Formicidae, Insect geography, Surveys.

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11720-69

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W Block

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Faronta, Insect taxonomy, Noctuidae.

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W Chmielewski

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30 Oct 1967 421 P76

Insect morphology, Insect names, Insect taxonomy, Mites, Oribatei, Sarcoptiformes. English summary.

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EARLY STAGES OF LYCOMORPHA REGULUS GRINNELL, WITH NOTES ON THE IMAGO. (LEPIDOPTERA: AMATIDAE).

J A Comstock C Henne

*J Res Lepidoptera* 6(4):275-280

Dec 1967 421 J827

Amatidae, Imagos, Insect taxonomy, Lichenes, Lycomorpha.

Abstract

11726-69

STUDIES IN LIFE HISTORIES OF NORTH AMERICAN LEPIDOPTERA CALIFORNIA ANNAPHILA III.

J P Comstock C Henne

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Annaphila, Host plants, Insect taxonomy, Larvae.

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Jul 1969 410 R92

Cicadellidae, Insect taxonomy, Zoogeography. Russian and English abstracts

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T N Freeman

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Forest insects, Insect anatomy, Insect identification, Insect taxonomy, Nepticula macrocarpae, Nepticulidae, Quercus macrocarpa, Zoogeography.

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C Girard

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P Knudsen

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Ixodes persulcatus, Ixodidae, Zoogeography.

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Curculionidae, Insect taxonomy, Lasiorhynchites ophthalmicus, Quercus.

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L A Mound

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L V Muliarskaia

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Insect taxonomy, Mites, Trombiculidae.

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E P Nartshuk

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Chloropidae, Surveys, Zoogeography. Russian and english abstracts

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H Ohira

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Cuticle, Elateridae, Insect identification, Insect taxonomy.

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Insect ecology, Insect identification, Insect pests, Plectris aliena, Scarabacidae, Zoogeography.

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CONTRIBUTION TO THE KNOWLEDGE OF THE GENERA MANTIS LINNE AND PARAMANTIS, SP. NOV. (MANTIDAE). (FR)

R Roy

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Jan 1967 515 D14

Catalogs, Insect taxonomy, Mantidae, Zoogeography.

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A PRELIMINARY REVIEW OF THE GENUS HOMOCHAETOTHIRPS GEN.-N., WITH BRIEF DESCRIPTION OF A NEW SPECIES (THYSANOPTERA: THRIPIDAE).

K Sakimura

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Jun 1968 420 EN823

Homochaetothrips, Insect morphology, Insect taxonomy, Taeniothrips, Thripidae, Zoogeography. Reclassification of several species of isochaetothrips.

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NEW ENTOMOPHILOUS ACARI FROM CHINA. (GE)

K Samsinak

Acta Ent Bohemoslov 59(2):186-204 REF

20 Apr 1962 420 C33

Insect taxonomy, Mites, Zoogeography. Czech summary.

The new species are: Rhopalanoetus simplex, R. chinensis, Weiseronyssus mirus (n. gen., n. sp.), Coleolaelaps liui, Macrocheles glaber tsaii (n. sp.), and M. limue.

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E S Shaldybina

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Jul 1969 410 R92

Ceratozetidae, Insect taxonomy, Mites, Oribatei, Zoogeography. Russian and english abstracts

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P Starý

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Braconidae, Cuticle, Insect anatomy, Insect color, Insect dissemination, Taxonomy, Trioxys.

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THREE APHELINID PARASITES OF ODONASPIS SECRETA COCKERELL FROM JAPAN (HYMENOPTERA: CHALCIDOIDEA).

T Tachikawa

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Hymenoptera, Insect identification, Insect pests, Insect rearing, Odonaspis secreta, Parasitic insects.

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DISCOVERY OF MARLATTIELLA PRIMA HOWARD, A PARASITE OF THE PEAR WHITE SCALE, FROM JAPAN (HYMENOPTERA: APHELINIDAE).

T Tachikawa

Shikoku Entomol Soc Trans 7(3):74-77

Jun 1962 420 SH6

Aphelinidae, Insect geography, Insect rearing, Insect taxonomy, Lopholeucaspis japonica, Marlattielia prima, Parasitic insects.

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SCALE INSECTS OF SHIKOKU, II (HOMOPTERA: COCCOIDEA).

T Tachikawa

Shikoku Entomol Soc Trans 7(3):77-78

Jun 1962 420 SH6

Coccoidea, Insect identification, Insect taxonomy.

11764-69

ON CALLIPTEROMA KIUSHIENSE ISHII (HYMENOPTERA: ENCYRTIDAE).

T Tachikawa

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Jun 1962 420 SH6

Callipteroma, Encyrtidae, Insect identification, Insect taxonomy.

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NEW HOSTS OF TWO TACHINID FLIES (DIP-TERA).

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*Shikoku Entomol Soc Trans* 7(3):80

Jun 1962 420 SH6

Insect morphology, Insect taxonomy, Tachinidae.

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SOME SPECIES OF CAPITOPHORUS OF JAPAN (HOMOPTERA: APHIDIDAE).

R Takahashi

*Shikoku Entomol Soc Trans* 7(1-2):1-4

Aug 1961 420 SH6

Aphididae, Capitophorus, Insect identification, Insect taxonomy.

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KEY TO GENERA AND SPECIES OF GREE-NIDEINI OF JAPAN, WITH DESCRIPTIONS OF A NEW GENUS AND THREE SPECIES (HOMOPTERA: APHIDIDAE).

R Takahashi

*Shikoku Entomol Soc Trans* 7(3):65-73

Jun 1962 420 SH6

Aphididae, Insect identification, Insect taxonomy.

11768-69

FURTHER NOTES ON ARGAS (ARGAS) REFLEXUS (FABR.), ARGAS (CARIOS) VESPERTILIONIS (LATREILLE) AND IXODES VESPERTILIONIS KOCH (IXODOIDEA).

G B Thompson

*Entomol Mon Mag* 103(1238-1240):153-154

Jul 1967 421 EN86

Argas reflexus, Argas vespertilionis, Argasidae, Ixodes vespertilionis, Ixodidae. Additional references listed.

11769-69

A PREVIOUSLY UNRECOGNIZED SUBSPECIES OF PHILOTES SPECIOSA.

J W Tilden

*J Res Lepidoptera* 6(4):281-284

Dec 1967 421 J827

Insect taxonomy, Lepidoptera, Philotes speciosa.

11770-69

NEW OR LITTLE KNOWN NOCTURAL QUADRIFIDS OF MADAGASCAR, III (LEP., NOCTUIDAE). (FR)

P Viette

*Lambillonea* 67(1/2):9-20

25 Feb 1968 420 N15

Insect morphology, Insect taxonomy, Lepidoptera, Noctuidae, Zoogeography. Description of 12 species.

11771-69

A NEW PTEROMALID PARASITE OF THE EASTERN DEATH WATCH BEETLE, HADROBREGMUS CARINATUS (SAY).

G E Wallace

*Brooklyn Entomol Soc Bull* 54(3):84-86

Jun 1959 420 B79

Anobiidae, Cerocephala, Insect taxonomy, Predaceous insects.

11772-69

FOUR APHIDS NEW FOR CHILE. (HOMOPTERA, APHIDIDAE). (SP)

E S Zuniga

*Agri Tec* 27(2, APR-JUN):87-91

1967 464.9 C432B

Aphididae, Aphis spiraccola, Chaetosiphon fragaefolii, Dactynotus sonchi, Dysaphis tulipae, Insect identification, Neomyzus circumflexus, Rhopalosiphum padi, Zoogeography. English summary.

## PHYSIOLOGY AND BIOCHEMISTRY

11773-69

MODE OF MULTIPLICATION OF THE NUCLEAR-POLYHEDROSIS VIRUS OF THE SILKWORM.

K Aizawa

*J Sericul Sci Jap* 36(4):327-332 REF

Aug 1967 425.9 SE6

Ammonium sulfate, Bombyx mori, Experimental insects, Hemolymph, Insect diseases, Insect physiology, Polyhedroses, Temperature, Virology, Viricides. Japanese summary.

11774-69

ULTRASTRUCTURAL LOCALIZATION OF PHOSPHATASES IN THE MIDGUT OF THE SILKWORM, BOMBYX MORI.

H Akai

*J Insect Physiol* 15(9):1623-1628 REF

Sep 1969 421 J825

Bombyx mori, Cytology, Electron microscopy, Enzymes, Gastrointestinal system, Insect biochemistry, Phosphatases.

11775-69

ON PHOTORECEPTIVE AND PHOTOKINETIC ACTIVITY OF WINGS IN INSECTS. (RUS)

N K Alexeyev

*Zhur Obshch Biol* 30(3, MAY-JUN):292-303 REF

Jun 1969 442.8 Z6

Insect physiology, Light, Nervous system, Photosensitization, Wings (insects). English abstract.

11776-69

A STUDY OF THE EUGREGARINES OF THE GRASS-GRUB (LARVA OF COSTELYTRA ZEALANDICA (WHITE), MELOLONTINAE), WITH A DESCRIPTION OF THREE NEW SPECIES.

F R Allison

*Parasitology* 59(3):663-682 REF

Aug 1969 448.8 P21

Biology, Costelytra zealandica, Gastrointestinal system, Parasitism, Protozoa, Scarabaeidae, Taxonomy.

11777-69

EFFECT OF INSECTICIDES, ACARICIDES AND FUNGICIDES ON MORMONIELLA VITRIPENNIS WALKER (HYMENOPTERA PTEROMALIDAE).

G W Ankersmit J T Locher H H W Velthuis K W R Zwart

*Entomophaga* 7(3):251-255

1962 421 EN835

Acaricides, Experimental insects, Fungicides, Insecticides, Integrated control (pests), Nasonia vitripennis, Pteromalidae, Resistance. German summary. Influence of various pesticides is evaluated.

11778-69

ARTIFICIAL PARTHENOGENESIS AND EXPERIMENTAL POLYPLOIDY IN SILKWORM.

B L Astaurov

*J Sericul Sci Jap* 36(4):277-285

Aug 1967 425.9 SE6

Bombyx, Chemical reactions, Chromosomes, Cytogenetics, Insect eggs, Insect genetics, Insect physiology, Larvae, Parthenogenesis, Polyploidy, Sex ratios, Temperature. Japanese summary.

11779-69

APPLICATION OF X-RADIOGRAPHY TO THE ESTIMATION OF LARVAL SIZE IN ANOBIUM PUNCTATUM (DEG.).

J M Baker

*Holz Organ* 1:383-390

1966 QK604.H6

Anobium punctatum, Insect nutrition, Insect physiology, Larvae, Radiography, Wood, X-rays. German and French summaries.

11780-69

OVIPOSITION OF AEDES AEGYPTI L. ON A DRY SURFACE AND HYGRORECEPTORS.

M Bar-Zeev

*Nature* 213(5077):737-738

18 Feb 1967 472 N21

Aedes aegypti, Anopheles, Culex, Humidity, Insect cultures, Insect eggs, Insect physiology, Oviposition.

11781-69

MOVEMENT AND OVIPOSITION OF WHEAT BULB FLIES.

R Gardner J R Loftus P Huston

*Plant Pathol* 17(3):97-103

Sep 1968 464.8 P692

Hylemya coarctata, Insect behavior, Insect dissemination, Insect eggs, Insect traps, Oviposition, Research, Wheat.

11782-69

NO FRONTIER IN THE FIGHT AGAINST THE DESERT LOCUST.

S Baron

*FAO Rev Ceres* 1(5, SEP-OCT):32-35 MAP

1968 TX341.F63

Aceridae, Crop losses, Insect control, Insect pests, Schistocerca gregaria.

11783-69

INFLUENCES OF PHYSICAL FACTORS ON TERMITES. (GE)

G Becker

*Holz Organ* 1:415-425 REF

1966 QK604.H6

Cryptotermes, Environment, Insect behavior, Kalotermitidae, Termites, Wood. English and French summaries.

11784-69

THE SUGAR PINE CONE BEETLE.

W D Bedard

*U S Forest Serv Forest Pest Leaflet* 112:6P MAP

Jul 1968 A423.9 F764

Biological control (insects), Chemical control (insects), Conophthorus lambertiae, Crop losses, Insect biology, Insect morphology, Insect pests, Pinus lambertiae, Plant protection.

11785-69

SOME REMARKS ON THE PARASITISM OF INSECTS. (PO)

M Beiger

*Przegl Zool* 13(1):33-37

1969 410 P95

Biological control, Insect adaptation, Insect biology, Insect morphology, Insects, Larvae, Parasitism. English abstract.

11786-69

OBSERVATIONS WITH THE ELECTRON MICROSCOPE ON THE DEVELOPMENT OF THE VIRUS OF MALADIE DE FUSEAUX OF COLEOPTERA, MELOLONTA L. (FR)

M Bergoin G Devauchelle C Vago

*Acad Sci Compt Rend Ser D Sci Nat* 267(3, 2ND SEMESTER):382-385 REF

15 Jul 1968 505 P21

Electron microscopy, Insect physiology, Melolontha melolontha, Virus diseases (insects).

11787-69

REACTIONS OF BIOINDICATORS TO HAEMOLYMPH AND EXCRETA OF COLORADO BEETLE LARVAE-LEPTINOTARSA DECEMLINEATA SAY (COL. CHRYSOMELIDAE) TREATED WITH PREPARATION DIELDRIN. (POL.)

A Blazejewska

*Pol Pismo Entomol* 37(3):507-515

30 Oct 1967 421 P76

Chlorinated hydrocarbons, Dieldrin, Drosophila melanogaster, Excreta, Haemolymph, Insect biochemistry, Leptinotarsa decemlineata, Toxicology. English summary.

11788-69

ASPECTS OF THE HABITS AND NUTRITION OF THE ANOBIIDAE WITH SPECIAL REFERENCE TO ANOBIUM PUNCTATUM.

J D Bletchly

*Holz Organ* 1:371-381 REF

1966 QK604.H6

# ENTOMOLOGY

11789-69

Anobiidae, *Anobium punctatum*, Insect behavior, Insect nutrition, Wood. German and French summaries.

11789-69

## PROTECTION OF ANT HILLS OF FORMICA RUFA L. (PO)

J Bobinski

*Przegl Zool* 13(1):42-46 REF

1969 410 P95

Beneficial insects, Biological control (insects), *Formica rufa*, Insect behavior. English abstract

11790-69

## NOTES ON PARASITES ATTACKING THE YELLOW-STRIPED ARMYWORM IN OKLAHOMA.

D G Bottrell

*Entomol Soc Amer Ann* 62(1):250-252

15 Jan 1969 420 EN82

Host plants, Insect behavior, Insect ecology, Insect rearing, Larvae, Noctuidae, Parasitic insects, *Prodenia ornithogalli*, Zoogeography. The author lists parasitic species reared from the yellow striped armyworm and its host plant and locality.

11791-69

## DEVELOPMENT OF A CHEMICALLY DEFINED DIET FOR ADULTS OF THE APPLE MAGGOT BASED ON AMINO ACID ANALYSIS OF HONEYDEW.

G M Boush R J Baerwald S Miyazaki

*Entomol Soc Amer Ann* 62(1):19-21 REF

15 Jan 1969 420 EN82

Amides, Amino acids, *Aphis pomi*, Apples, Biochemistry, Honeydew, Insect nutrition, Quantitative analysis, *Rhagoletis pomonella*.

11792-69

## CONTROL OF THE CIRCADIAN RHYTHM OF ACTIVITY IN THE COCKROACH. III. A POSSIBLE ROLE OF THE BLOOD-ELECTROLYTES.

J Brady

*J Exp Biol* 49(1):39-47 REF

Aug 1968 442.8 B77

Blood composition, Diurnal rhythm, Electrolytes, Insect biology, *Periplaneta americana*.

11793-69

## PERMEABILITY TO WATER OF THE SHELL OF THE EGG OF LOCUSTA MIGRATORIA MIGRATORIOIDES, WITH OBSERVATIONS ON THE EGG OF TELEOGYLLUS COMMODUS.

T O Browning

*J Exp Biol* 51(1):99-105

Aug 1969 442.8 B77

Insect eggs, Insect physiology, *Locusta migratoria migratoria*, Permeability, *Teleogryllus commodus*, Water.

11794-69

## THE COMMON SHREW (*SOREX ARANEUS*) AS A PREDATOR OF THE WINTER MOTH (*OOPEROPHTERA BRUMATA*) NEAR OXFORD, ENGLAND.

C H Buckner

*Can Entomol* 101(4):370-375 REF

Apr 1969 421 C16

Insectivora, Natural control (insects), *Operophtera brumata*.

11795-69

## IMMATURE STAGES OF AUSTRALIAN ANTHOPHORINAE (HYMENOPTERA: APOIDEA).

J Cardale

*Entomol Soc Queensland J* 7(1):35-41 REF

Jun 1968 420 EN823

Anthophorinae, Apidae, Insect behavior, Insect morphology, Larvae, Metamorphosis, Pupae, Zoogeography.

11796-69

## PARASITES AND OTHER ORGANISMS ASSOCIATED WITH NESTS OF AMEGILLA FRIESE (HYMENOPTERA: ANTHOPHORINAE).

J Cardale

*Entomol Soc Queensland J* 7(1):29-34 REF

# BIBLIOGRAPHY

Jun 1968 420 EN823

Anthophora, Apidae, Entomogenous fungi, Insect nests, Parasitic insects, Zoogeography.

The parasites and other organisms associated with the nests of *Amegilla Friese* are *Thyreus* spp., *Miltogramma* sp., *Zonitis* sp., *Pymotes ventricosus*, *Trogoderma apicenne*, and *Lasioderma serricorne*.

11797-69

## AN ULTRASTRUCTURAL ANALYSIS OF MICROSOMAL PREPARATIONS FROM MUSCA DOMESTICA AND PRODENIA ERIDANIA.

J D Cassidy E Smith E Hodgson

*J Insect Physiol* 15(9):1573-1578 REF

Sep 1969 421 J825

Cytology, Microscopy, Microsomes, *Musca domestica*, *Prodenia eridania*, Spectrophotometry.

11798-69

## ON THE ECOLOGY OF THE FAUNA OF STONES IN THE CURRENT IN A SOUTH AFRICAN RIVER SUPPORTING A VERY LARGE SIMULIUM (DIPTERA) POPULATION.

F M Chutter

*J Appl Ecol* 5(3):531-561 MAP REF

Dec 1968 410 J828

Aquatic insects, Environment, Insect ecology, Insect populations, Sampling (statistics), *Simulidae*.

11799-69

## BIOLOGICAL CONTROL OF THE EGYPTIAN ALFALFA WEEVIL IN CALIFORNIA AND ARIZONA.

D W Clancy

*J Econ Entomol* 62(1):209-214 REF

17 Feb 1969 421 J822

*Bathyplectes anurus*, *Bathyplectes curculionis*, Biological control (insects), *Dibrachoides druso*, *Hypera brunneipennis*, *Hypera postica*, *Microctonus aethiops*, Parasitism, *Tetrastichus incertus*.

11800-69

## EFFECTS OF LIGHT: DARK CYCLES ON DEVELOPMENT IN DROSOPHILA MELANOGLASTER.

D L Clayton

*Diss Abstr Sect B* 29(7):2676B

Jan 1969 Z5055.U49D53

Diurnal rhythm, *Drosophila melanogaster*, Insect eggs, Insect physiology, Light, Ovulation.

11801-69

## COMPOSITION OF THE NEUTRAL LIPIDS FROM TERMITE QUEENS.

S H W Cmelik

*J Insect Physiol* 15(9):1481-1487 REF

Sep 1969 421 J825

Chromatography, Hemolymph, Insect biochemistry, Insect physiology, Lipids, Termites.

11802-69

## BIOLOGY OF BRACON KIRKPATRICKI AND FIELD RELEASES OF THE PARASITE FOR CONTROL OF THE BOLL WEEVIL.

W H Cross W L McGovern H C Mitchell

*J Econ Entomol* 62(2):448-454 REF

15 Apr 1969 421 J822

*Anthonomus grandis*, Biological control (insects), *Braconidae*, Insect biology, Insect rearing, Larvae, Parasitic insects.

11803-69

## IN VITRO FATTY ACID OXIDATION BY DEVELOPING TISSUES IN THE ADULT OF THE BLOWFLY, FLUCILIA.

M A D'Costa L M Birt

*J Insect Physiol* 15(9):1629-1645 REF

Sep 1969 421 J825

Fatty acids, Insect biochemistry, Insect physiology, Oxidation, *Phaenicia cuprina*, Respiration.

11804-69

## LARVAL MOULTING CYCLE AND DNA SYNTHESIS IN DROSOPHILA HYDEI SALIVARY GLANDS.

G A Danieli E Rodino

*Nature* 213(5074):424-425 REF

28 Jan 1967 472 N21

Deoxyribonucleic acid, *Drosophila hydei*, Insect physiology, Larvae, Metamorphosis, Molting (insects), Salivary glands (insects).

11805-69

## CONTRIBUTION TO THE MORPHOLOGY AND PHYLOGENY OF THE REDUVIOIDEA. PART IV. THE HARPACTOROID COMPLEX.

N T Davis

*Entomol Soc Amer Ann* 62(1):74-94 REF

15 Jan 1969 420 EN82

Heteroptera, Insect anatomy, Insect morphology, Insect taxonomy, Reduviidae.

11806-69

## TWO ACMAEODERA PARASITES OF ACACIA IN MAURITANIA AND IN THE SAHARA (COL. BUPRESTIDAE). (FR)

A Descarpentries J Mateu

*Inst Fondamental Afr Noire Bull Ser A Sci Natur (SER A)* 19(2):645-648

Apr 1967 515 C14

*Acacia*, *Acmaeodera*, Buprestidae, Insect anatomy, Insect identification, Insect pests, Insect taxonomy, Parasitism, Zoogeography.

11807-69

## SEX PHEROMONE OF THE QUEEN BUTTERFLY: BIOLOGY.

T E Dislike T Eisner

*Science* 164(3884):1170-1172 REF

06 Jun 1969 470 SCI2

*Danaidae*, *Danaus gilippus berenice*, Insect behavior, Insect biology, Pheromone, Secretion, Sex behavior.

11808-69

## ECOLOGY OF THE AMERICAN DOG TICK, DERMACENTOR VARIABILIS (SAY), IN NOVA SCOTIA.

D G Dodds A M Martell R E Yescott

*Can J Zool* 47(2):171-181 MAP REF

Mar 1969 470 C16D

*Dermacentor variabilis*, Insect ecology, Ixodidae.

The most important hosts for both immature stages and adult stages are given. The hosts are: meadow vole, deer mouse, southern bog lemming, meadow jumping mouse, porcupine, raccoon, and black bear.

11809-69

## PARASITES FOR CONTROL OF GRAPE LEAF FOLDER.

R L Doutt J Nakata F E Skinner

*Calif Agr* 23(4):4

Apr 1969 100 C12CAG

Biological control (insects), *Desmia funeralis*, Grapes, Parasitism.

11810-69

## THE COCKROACH LEARNS TO AVOID INSECTICIDES.

W Ebeling D A Reisner

*Calif Agr* 23(2):12-15

Feb 1969 100 C12CAG

*Blattidae*, Boric acid, Electric shock, Insecticides.

11811-69

## DEVELOPMENT AND HISTOLYSIS OF THE INDIRECT FLIGHT MUSCLES IN DYSDERCUS INTERMEDIUS.

F J Edwards

*J Insect Physiol* 15(9):1591-1599 REF

Sep 1969 421 J825

*Dysdercus intermedius*, Histochemistry, Insect physiology, Muscles.

11812-69

## MOLECULAR ORGANIZATION IN THE POLYHEDRA OF POTHETRIA DISPAR NUCLEAR-POLYHEDROSIS.

A Engstrom R Kilkson

*Exp Cell Res* 53(1):305-310

Oct 1968 442.8 EX7

Electron microscopy, Insect biology, Insect diseases, Lymantriidae, Polyhedra, Polyhedroses, *Pothetria dispar*, Virology.

11813-69  
A CONTRIBUTION TO THE EVIDENCE OF THE INFORMATIVE ROLE OF THE SOUND COMPONENT IN MOBILIZATIVE BEE DANCES. (RUS)  
E K Eskov

*Zhur Obshch Biol* 30(3, MAY-JUN):317-323 REF  
Jun 1969 442.8 Z6  
Apiculture, *Apis mellifera*, Insect behavior, Sound waves.

11814-69  
LIQUID NITROGEN FIXATION: A NEW METHOD FOR HEMOCYTE COUNTS AND MITOTIC INDICES IN TISSUE SECTIONS.

D Feir G M O'Connor  
*Entomol Soc Amer Ann* 62(1):246-247  
15 Jan 1969 420 EN82  
Blood cells, Hematology, Insect physiology, Methodology, Mitosis, Nitrogen-fixation, Oncopel-tus fasciatus, Tissues.

11815-69  
HORMONE-MEDIATED NUTRITIONAL CONTROL OF SEXUAL BEHAVIOR IN MALE DUNG FLIES.

W Foster  
*Science* 158(3808):1596-1597  
22 Dec 1967 470 SCI2  
Anthomyiidae, *Corpora allata*, Emergence, Hormones, Insect physiology, *Musca domestica*, Parasitic insects, Predaceous insects, Reproductive organs, *Scatophaga stercoraria*, Sex behavior.

11816-69  
MASONAPHIS MAXIMA (MASON) (HOMOPTERA: APHIDIDAE), AN APHID ON THIMBLEBERRY WITH AN UNUSUAL LIFE HISTORY.

B D Frazer A R Forbes  
*Entomol Soc Brit Columbia Proc* 65:36-39 REF  
01 Aug 1968 420 B77  
Aphididae, Fruit, Growth factors, Insect biology, Insect eggs, Insect physiology, Insect vectors, *Masonaphis maxima*, Ring spot, *Rubus parviflorus*, Temperature, Virus diseases (plants), Zoogeography.

11817-69  
TRIBUTYLTIN MOLLUSCIDIDES. PATENT 3,439,098.  
A H Freiberg  
*Us Patent Office Offic Gaz* 861(3):936  
15 Apr 1969 156.65 OF2  
Molluscicides, Mollusks, Patents, Snails, Tin compounds.

11818-69  
EFFECTS OF ROAD DUST ON SPIDER MITES. C Fukushima E M Stafford  
*Calif Agr* 23(4):10  
Apr 1969 100 C12CAG  
Dust (soil), Leaves, Tetranychidae.

11819-69  
RESEARCH ON THE ECOLOGICAL SYSTEM OF THE FOREST. SERIES C: OAKS OF MESNIL-EGLISE (FERAGE) WITH GALEOBOLON AND OXALIS. CONTRIBUTION NO. 5. INSECTS COLLECTED IN WATER JARS. (FR)  
C Gaspar S Krzelj C Verstraeten F Wolf  
*Bull Recherch Agron Gembloux* (N s)3(1):83-100  
1968 S5.B8

Forests, *Galeobololon*, Insect ecology, Insect traps, *Oxalis*, *Quercus*, Tables (data).

11820-69  
SOLDIER-REPRODUCTIVE INTERCASTES IN A SPECIES OF TUMULITERMES (ISOPTERA: TERMITIDAE).  
F J Gay  
*Entomol Soc Queensland J* 7(1):83-84  
Jun 1968 420 EN823  
Insect abnormalities, Insect morphology, Insect physiology, Social insects, *Tumulitermes*.

11821-69  
THE BIOECOLOGY OF CORTHYLUS COLUMBIANUS HOPKINS.

R L Giese  
*Holz Organ* 1:361-370  
1966 QK604.H6  
Climate, *Corthylus columbianus*, Hardwoods, Insect biology, Insect ecology, Insect pests, *Pichia*, Population, Sap stain, Water, Zoogeography. German and French summaries.

11822-69  
SOME OBSERVATIONS ON THE MALPIGHIAN TUBULES AND OVARIOLES IN MYRMECIA DISPAR (CLARK) (HYMENOPTERA: FORMICIDAE).

B Gray K P Lamb  
*Entomol Soc Queensland J* 7(1):80-81  
Jun 1968 420 EN823  
Formicidae, Insect physiology, Malpighian tubes, *Myrmezia dispar*, Ovarioles.

11823-69  
HISTOPATHOLOGY OF LECITHODENDRIID TREMATODE INFECTIONS IN STONEFLY NAIADS.

J E Hall J E Weaver B Gomez-Miranda  
*J Invertebrate Pathol* 13(1):91-113 REF  
Jan 1969 421 J826  
*Acroneuria carolinensis*, *Cercaria stenodorya*, *Cer-caria tremaglandis*, Histopathology, Insect diseases, Insect physiology, *Isogenus hastatus*, Parasitism, Perlidae, Trematoda.

11824-69  
HOUR-GLASS DUSK AND RHYTHMIC DAWN TIMERS CONTROL DIAPAUSE IN THE CODLING MOTH.

W M Hamner  
*J Insect Physiol* 15(9):1499-1504 REF  
Sep 1969 421 J825  
*Carpocapsa pomonella*, Insect behavior, Photoperiodism.

11825-69  
A REVIEW OF THE USE OF INSECTICIDES ON THE MAIN AGRICULTURAL CROPS OF THE WORLD-2. SECTION 2: DECIDUOUS FRUIT TREES.

A D Hanna  
*World Rev Pest Contr* 7(4,WINTER):184-203  
REF  
1968 79.8 W89

Chemical control (insects), Fruit trees, Insect pests, Insecticides, Reviews, Trees. Many insecticides and countries are discussed.

11826-69  
THE ENERGY-DEPENDENT ACCUMULATION OF PHOSPHATE BY BLOWFLY MITOCHONDRIA AND ITS EFFECT ON THE RATE OF PYRUVATE OXIDATION.

R G Hansford J B Chappell  
*Biochem Biophys Res Commun* 30(6):643-27 Mar 1968 442.8 B5236  
Biochemistry, *Calliphora vomitoria*, Chemical reactions, Energy, Mitochondria, Oxidation-reduction potential, Phosphates, Pyruvic acid.

11827-69  
GROUND BEETLES OF THE GENUS LEBIA LATREILLE IN ARKANSAS (COLEOPTERA: CARABIDAE): ECOLOGY AND GEOGRAPHICAL DISTRIBUTION.

R Hemenway W H Whitcomb  
*Ark Acad Sci Proc* 21:15-20 REF  
1967 500 AR42  
Carabidae, Insect ecology, Insect pests, Insect taxonomy, *Lebia*, Predaceous insects, Zoogeography.

11828-69  
FIELD INVESTIGATIONS PRELIMINARY TO LIFE HISTORY STUDIES ON THE LITHOSIMONIA-CASTA COMPLEX OF THE GENUS ANNAPHILA (NOCTUIDAE).

C Henne  
*J Res Lepidoptera* 6(4):249-256  
Dec 1967 421 J827

Annaphila, Field studies, Insect ecology, Larvae, Noctuidae, Oviposition.

11829-69  
GROWTH PATTERN OF LEISHMANIA IN PHLEBOTOMUS SANDFLIES.

M Hertig P T Johnson E McConnell  
*Science* 165(3900):1379-1380 REF  
26 Sep 1969 470 SCI2  
Electron microscopy, Insect histology, Insect physiology, *Leishmania*, *Phlebotomus*.

11830-69  
RESPIRATORY PHYSIOLOGY OF THE LARVA OF DONACIA SIMPLEX, A ROOT-PIERCING BEETLE.

D F Houlihan  
*J Insect Physiol* 15(9):1517-1536 REF  
Sep 1969 421 J825  
Chrysomelidae, Insect biochemistry, Insect metabolism, Insect physiology, Insect respiration, Larvae, Oxygen.

11831-69  
CONTRIBUTION TO THE BIONOMICS OF COPTOTERMES FORMOSANUS, ITS LABORATORY BREEDING AND APPLICABILITY FOR TESTING THE RESISTANCE OF MATERIALS. (GE)

I Hrdy  
*Holz Organ* 1:427-436 REF  
1966 QK604.H6  
Coptotermes formosanus, Insect biology, Insect ecology, Insect physiology, Insect rearing, Laboratories. English and French summaries.

11832-69  
THE ACTIVITY OF SPERMATOZOA OF PERIPLANETA.

M Hughes K G Davey  
*J Insect Physiol* 15(9):1607-1616 REF  
Sep 1969 421 J825  
Copulation, Electron microscopy, Insect behavior, Insect physiology, *Periplaneta americana*, Spermatozoa.

11833-69  
INFLUENCE OF METEROLOGY UPON THE NUTRITION OF LADYBUGS (COCCINELIDAE). (PO)

*Przegl Zool* 113(2):188-191  
1969 410 P95  
Aphididae, Coccinellidae, Insect nutrition, Meteorology, Predaceous insects. English abstract.

11834-69  
BIOLOGICAL OBSERVATIONS ON LARRA AMPLIPENNIS (SMITH) IN KAGAWA, JAPAN (HYMENOPTERA: SPHECIDAE).

K Iwata M Tanahata  
*Shikoku Entomol Soc Trans* 7(4):101-104  
May 1963 420 SH6  
Entomology, Insect behavior, Insect biology, Insect histology, Insect morphology, Sphecidae.

11835-69  
ALLELLOPATHY BY MYRMECOPHYES: THE ANT AZTECA AS AN ALLELOPATHIC AGENT OF CECROPIA.

D H Jansen  
*Ecology* 50(1,WINTER):147-153 REF  
1969 410 EC7  
Allelopathy, Azteca, Beneficial insects, Cecropia, Chemicals, Formicidae, Insect behavior, Myrmecophilous insects, Plant protective devices.

11836-69  
BIOLOGICAL STUDIES OF SCYTHROPUS CALIFORNICUS ON MONTEREY PINE IN NORTHERN CALIFORNIA.

G L Jensen C S Koehler  
*Entomol Soc Amer Ann* 62(1):117-120  
15 Jan 1969 420 EN82  
Curculionidae, Insect biology, Insect ecology, Insect eggs, Insect physiology, *Pinus radiata*, *Scythropus californicus*, Zoogeography.

# ENTOMOLOGY

11837-69

## 11837-69 MICROBIAL INSECTICIDES FOR CONTROL OF GRAPE LEAF FOLDER.

F L Jenson

*Calif Agr* 23(4):5-6

Apr 1969 100 C12CAG

Bacillus thuringiensis, Carbaryl, Desmia funeralis, Erythroneura comes, Insecticides, Tetranychidae.

## 11838-69

### SYMBIOSIS OF THE ANOBIIDAE WITH YEASTLIKE FUNGI. (GE)

G Juritzka

*Holz Organ* 1:531-543 REF

1966 QK604.H6

Anobiidae, Fungi, Insect physiology, Lasioderma serricorne, Stegobium paniceum, Symbiosis, Wood, Yeasts. English and French summaries.

## 11839-69

### FACT-INHIBITORY EFFECT OF CERTAIN CHEMICALS ON THE COMPOUND EYES OF DROSOPHILA MELANOGASTER.

S Kaji Y Hirose

*Proc Jap Acad* 44(5):369-373 REF

May 1968 513 T576

Chemicals, Deoxyribonucleic acid, Drosophila melanogaster, Eyes, Inhibitors, Insect metabolism, Lactamides, Mechlorethamine oxide hydrochloride, Mitomycin C, Synthesis.

## 11840-69

### ARTIFICIAL FEEDSTUFF FOR SILKWORM LARVAE CONTAINING A HYDROXYBENZAL-DEHYDE COMPOUND. PATENT 3,425,838.

M Kamada T Okauchi

*Us Patent Office Offic Gaz* 859(1):230

04 Feb 1969 156.65 OF2

Biochemistry, Bombyx mori, Feed, Hydroxybenzaldehyde, p-, Insect physiology, Larvae, Patents.

## 11841-69

### ACARINE MOLTING-THE MIGRATION OF HEMOCYTES THROUGH THE EPIDERMIS OF CALOGLYPHUS BERLESEI.

K Kanungo

*Entomol Soc Amer Ann* 62(1):155-157

15 Jan 1969 420 EN82

Blood cells, Caloglyphus berlesei, Epithelium, Hematology, Insect histology, Insect physiology, Mites, Molting (insects), Phagocytosis, Secretion.

## 11842-69

### THE LIFE HISTORY AND FEEDING HABITS OF OPATROIDES PUNCTULATUS IN TIBERIAS, ISRAEL.

T Kaufmann

*Entomol Soc Amer Ann* 62(1):236-239

15 Jan 1969 420 EN82

Feeding, Grain, Insect behavior, Insect biology, Insect morphology, Insect nutrition, Insect physiology, Meat, Opatrioides punctulatus, Tenebrionidae, Zoogeography.

## 11843-69

### EFFECTS OF ENVIRONMENTAL FACTORS ON THE MARKINGS OF PIERIS RAPAE (PIERIDAE).

J M Kolyer

*Lepidopterists Soc J* 23(2):77-94 REF

29 May 1969 421 L554

Color, Humidity, Pieris rapae, Temperature.

## 11844-69

### ACTIVITY OF FOSFOTION AND METATHION AGAINST ACYRTHOSIPHON ONOBRYCHIS BOYER. (CZ)

J Kralovic S Gaher

*Agrochemia* 8(7):206-208

1968 385 AG88

Acyrthosiphon pisum, Aphididae, Chemical control (insects), Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Ecology, Insect pests, Insecticides, Malathion, Organophosphorus compounds. English, Russian, and German summaries.

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## 11845-69

### ESTIMATION OF A TOTAL BACTERIAL NUMBER IN TERMITE INTESTINES. (RUS)

N A Krassilnikov Sh I Sadykov

*Mikrobiologiya* 38(2):346-350

1969 448.3 M582

Bacteria, Gastrointestinal system, Insect physiology, Methodology, Surveys, Termites. English abstract.

## 11846-69

### SEROLOGICAL INVESTIGATIONS OF INSECT VIRUSES. I. COMPARISON OF THREE HIGHLY PURIFIED CYTOPLASMIC-POLYHEDROSIS VIRUSES.

J Krywiencyz Y Hayashi F T Bird

*J Invertebrate Pathol* 13(1):114-119

Jan 1969 421 J826

Antigens, Bombyx mori, Centrifugation, Electrophoresis, Insect diseases, Malacosoma disstria, Orgyia leucostigma, Polyhedroses, Serological tests, Virology.

## 11847-69

### COMPARATIVE EFFECTS OF CHEMOSTERILANTS ON SPERMATOGENIC STAGES IN THE HOUSE FLY. I. INDUCTION OF DOMINANT LETHAL MUTATIONS IN MATURE SPERM AND GONIAL CELL DEATH.

L E LaChance M Degruigillier A P Leverich

*Mutation Res* 7(1 JAN-FEB):63-74 REF

1969 443.8 M98

Chemical control (insects), Chemosterilants, Dosage, Insect mutation, Lethal factor, Musca domestica, Spermatozoa. 12 chemosterilants were tested.

## 11848-69

### MIGRATIONS OF HIPPELATES COLLUSOR LARVAE FROM MOISTURE AND TROPHIC STIMULI AND THEIR ENCOUNTER BY TRYBIOGRAPHA PARA-.

E F Legner G S Olton

*Entomol Soc Amer Ann* 62(1):136-141

15 Jan 1969 420 EN82

Chloropidae, Cynipidae, Experimental insects, Food supply, Hippelates collusor, Humidity, Insect migration, Insect physiology, Larvae, Mortality, Parasitic insects, Soil analysis, Stimuli, Trybographa, Zoogeography.

## 11849-69

### PROGRAMMED CELL DEATH. ACTIVATION OF LYSIS BY A MECHANISM INVOLVING THE SYNTHESIS OF PROTEIN.

R A Lockshin

*J Insect Physiol* 15(9):1505-1516 REF

Sep 1969 421 J825

Antherea polyphemus, Antibiotics, Endocrine glands, Insect biochemistry, Insect physiology, Lysis, Muscles, Nervous system, Proteins, Synthesis.

## 11850-69

### THE CONTROL OF WATER LOSS IN LOCUSTA MIGRATORIA MAYS. INFLUENCE OF HIGH-TEMPERATURE TREATMENT BEFORE SPIRACLES.

J P Loveridge

*J Exp Biol* 49(1):15-29 REF

Aug 1968 442.8 B77

Chromosomes, Insect biology, Insect respiration, Locusta migratoria migratoria, Spiracles, Ventilation, Water.

## 11851-69

### MIGRATORIOIDES R. AND F. I. CUTICULAR WATER LOSS. THE CONTROL OF WATER LOSS IN LOCUSTA MIGRATORIA.

J P Loveridge

*J Exp Biol* 49(1):1-13 REF

Aug 1968 442.8 B77

Cuticle, Insect biology, Insect temperature, Locusta migratoria migratoria, Water.

## 11852-69

### SUBTERRANEAN TERMITES AND FUNGAL-BACTERIAL RELATIONSHIPS.

A E Lund

## 11853-69

*Holz Organ* 1:497-502 REF

1966 QK604.H6

Bacteria, Fungi, Insect behavior, Insect diseases, Termites, Wood, Wood destroying fungi. German and French summaries.

## 11854-69

### SPECTRAL SENSITIVITY OF SCORPION EYES AND THE POSSIBLE ROLE OF SHIELDING PIGMENT EFFECT.

L Machen

*J Exp Biol* 49(1):95-105

Aug 1968 442.8 B77

Color, Eyes, Insect biology, Pigments (insect), Scorpionida, Vision.

## 11855-69

### APHIDIUS RUBIFOLII N. SP. (HYMENOPTERA: APHIDIIDAE), A PARASITOID OF MASONAPHIS MAXIMA FROM BRITISH COLUMBIA.

M Mackauer

*Entomol Soc Brit Columbia Proc* 65:34-35

01 Aug 1968 420 B77

Aphidiidae, Aphidius rubifolii, Braconidae, Insect anatomy, Insect identification, Insect morphology, Masonaphis maxima, Parasitic insects, Rubus parviflorus, Zoogeography.

## 11856-69

### SECRETION BY THE MALPIGHIAN TUBULES OF RHODNIUS. THE MOVEMENTS OF IONS AND WATER.

S H P Madrell

*J Exp Biol* 51(1):71-97 REF

Aug 1969 442.8 B77

Biological transport, Insect biochemistry, Ions, Malpighian tubes, Rhodnius prolixus, Secretions, Water.

## 11857-69

### THE INFLUENCE OF ABIOTIC FACTORS ON THE DEVELOPMENT CYCLE OF THE GRAPE PHYLLOXERA (DACTYLOSPHAERA VITIFOLII SCHIM.) AND ON A POPULATION OF JASSIDS (HOMOPTERA, AUCHENORHYNCHA, JASSIDAE). (FR)

P L Maillet

*Acta Ent Bohemoslov* 59(2):101-110

20 Apr 1962 420 C33

Ecology, Grape vineyards, Insect biology, Insect pests, Insect physiology, Phylloxera vitifoliae, Phylloxeridae, Population, Rainfall, Temperature. A table lists 39 species of Jassidae.

## 11858-69

### PANONYCHUS ELONGATUS MANSON (ACARINA: TETRANYCHIDAE)-A DESCRIPTION AND COMPARISON WITH P. CITRI (MICG.).

D C M Manson

*Entomol Soc Queensland J* 7(1):6-10

Jun 1968 420 EN823

Australia, Granadilla, Insect identification, Insect morphology, Insect pests, Mites, Panonychus citri, Panonychus elongatus, Zoogeography.

## 11859-69

### SOME RECORDS FOR IXODIDAE OF NOVA SCOTIA.

A M Martell R E Yescott D G Dodds

*Can J Zool* 47(2):183-184

Mar 1969 470 C16D

Dermacentor variabilis, Haemaphysalis leporisplustris, Ixodes angustus, Ixodes cookei, Ixodes muris, Ixodidae, Zoogeography.

## 11860-69

### INCORPORATION OF GLUCOSE-U-C14 INTO LIPLIDS OF THE BLOWFLY DURING FLIGHT.

C F Mathur W J Yurkiewicz

*J Insect Physiol* 15(9):1567-1571 REF

Sep 1969 421 J825

Carbon-14, Glucose, Insect biochemistry, Insect flight, Lipids, Phaenicia sericata, Radioactive tracers.

**11860-69**  
**THE DEVELOPMENT OF PENTAC RESISTANCE IN AN OUTCROSSING SWARM OF THE TWO-SPOTTED SPIDER MITE.**

W D McEnroe A Lakocy  
*J Econ Entomol* 62(2):283-286 REF

15 Apr 1969 421 J822

Chemical control (insects), Chlorinated hydrocarbons, Greenhouse culture, Insect behavior, Insect genetics, Insecticide resistant insects, Methodology, Tetranychidae.

**11861-69**

**SEX PHEROMONE OF THE QUEEN BUTTERFLY: CHEMISTRY.**

J Meinwald Y C Meinwald P H Mazzocchi  
*Science* 164(3384):1174-1175

06 Jun 1969 470 SCI2

Alcohols, Danaidae, Danaus gilippus berenice, Insect biochemistry, Ketones, Pheromone, Secretions, Sex behavior, Terpenoids.

**11862-69**

**EXPERIMENTS OF IN VITRO CULTURES OF LARVAL EPIDERM OF DESERT LOCUST (SCHISTOCERCA GREGARIA FORSK).**

A Miciarelli G Sbrenna G Colombo

*Experientia* 23(1):64-66

15 Jan 1967 475 EX7

Insect physiology, Larvae, Schistocerca gregaria, Synthesis, Tissue culture.

**11863-69**

**REPORT OF A GLUCOSE DIMINISHING PROCESS IN THE GUT OF THE COCKROACH, BLABERUS CRANIIFER BUDWEISTER.**

W D Modder

*Ceylon J Sci Biol Sci* 7(1/2):32/36 REF

Oct 1967 475 C33

Blaberus craniifer, Blattidae, Fluorides, Glucose, Glucose oxidase, Glycolysis, Hydrogen-ion concentration, Intestines.

**11864-69**

**THE OCCURRENCE OF HOUSE CRICKETS (ACHETA DOMESTICUS (LINNAEUS, 1758)) ON MOUNTAIN SLOPES. (GE)**

U Moritz

*Gesundheits Desinfek* 60(4):54-55

Apr 1968 449.8 Z36P

Acheta domesticus, Gregarina, Gryllidae, Insect diseases, Insect ecology, Insect flight, Insect physiology, Parasitism, Temperature, Zoogeography.

**11865-69**

**FUNCTION OF THE BRAIN THROUGH NERVE COMMISSURES ON THE SUBOESOPHAGEAL GANGLION IN BOMBYX MORI L.**

S Morohoshi T Oshiki

*Nature* 213(5077):737

18 Feb 1967 472 N21

Bombyx mori, Brain, Central nervous system, Ganglion cells, Hormones, Insect genetics, Insect physiology.

**11866-69**

**THE SYNTHESIS IN VITRO OF THE PROTEIN CALLIPHORIN BY FAT BODY FROM THE LARVA OF THE BLOWFLY, CALLIPHORA ERYthrocephala.**

E A Munn G M Price G D Greville

*J Insect Physiol* 15(9):1601-1605

Sep 1969 421 J825

Calliphora vicina, Fat body, Insect biochemistry, Larvae, Proteins, Synthesis.

**11867-69**

**LOCUSTS MARCH ON 40 COUNTRIES. MILLIONS EMERGE FROM DESERT SANDS.**

T A Nevin

*Rhodesian Farmer* 39(6):12-13

21 Jun 1968 24 R347

Aerial spraying, Chemical control (insects), Insect outbreaks, Insect pests, Insecticides, Pesticides, Schistocerca gregaria, Zoogeography.

**11868-69**

**150 YEARS OF CROP PEST CONTROL.**

G Ordish

*World Rev Pest Contr* 7(4,WINTER):204-213

REF

1968 79.8 W89

Biological control (pests), Chemical control (pests), Crops, Cultural control (insects), History, Insect pests, Methodology, Pest control.

**11869-69**

**ORIENTATION AND BIORHYTHMS IN JUMPING SPIDERS (ARANEIDA: SALTICIDAE).**

G J Phanuel

*Diss Abstr Sect B* 29(3):1218B

Sep 1968 Z5055.U49D53

Diurnal rhythm, Insect histology, Light, Salticidae, Spiders, Temperature.

**11870-69**

**19. THYSANOPTERA (PHYSOPODA). (GE)**

H Priesner

*Handbuch Zool* 4(2)/19:32P REF

Jul 1968 411 H19

Insect anatomy, Insect ecology, Insect morphology, Insect physiology, Insect taxonomy, Thysanoptera, Zoogeography.

**11871-69**

**THE CLUSTER FLY.**

S Rachesky

*Pest Contr* 37(3):55

Mar 1969 449.8 EX8

Chemical control (insects), Chlorinated hydrocarbons, Insect pests, Insecticides, Organophosphorus compounds, Pollenia rudis, Psychodidae, Sanitation, Spraying. The following insecticides are mentioned: malathion, naled, ronnel, pyrethrum, lindane, dichlorvos and diazinon.

**11872-69**

**FIG WASPS: MECHANISM OF POLLEN TRANSFER.**

W B Ramirez

*Science* 163(3867):580-581

07 Feb 1969 470 SCI2

Agaonidae, Figs, Hymenoptera, Insect anatomy, Insect morphology, Insect physiology, Pollen, Pollination, Symbiosis. The genera discussed are: Agaon, Allotropozoon, Blastophaga, Ceratosolen, Elisabethiella, Liporrhopalum, Pleistodontes, and Tetrapus.

**11873-69**

**THE UTILIZATION OF AMINO ACIDS AND SUGARS BY TICK CELLS CULTIVATED IN VITRO.**

J Rehacek H W Brzostowski

*J Insect Physiol* 15(9):1683-1686

Sep 1969 421 J825

Amino acids, Insect biochemistry, Insect metabolism, Ixodidae, Rhipicephalus sanguineus, Sugars.

**11874-69**

**CALCIUM, POTASSIUM, AND SODIUM CONTENT OF FOREST FLOOR ARTHROPODS.**

D E Reichle M H Shanks D A Crossley

*Entomol Soc Amer Ann* 62(1):57-62 REF

15 Jan 1969 420 EN82

Arthropoda, Calcium, Diplopoda, Forest insects, Insect biochemistry, Insect ecology, Insect physiology, Liriodendron tulipifera, Potassium, Sodium, Temperature. The chemical composition of all forest floor Arthropoda is listed.

**11875-69**

**THE DRUMMING OF THE PLECOPTERA (INSECTA). (GE)**

R Rupprecht

*Z Vergleichende Physiol* 59(1):38-71 REF

1968 444.8 Z3

Capniidae, Dinocras, Insect behavior, Insect physiology, Perlidae, Phalaris arundinacea, Plecoptera, Stridulation, Vibration. English summary.

**11876-69**

**MOVEMENT OF POTASSIUM AND SODIUM ACROSS THE MIDGUT EPITHELIUM OF THE AMERICAN COCKROACH.**

J R Sauer R R Mills

*J Insect Physiol* 15(9):1489-1498 REF

Sep 1969 421 J825

Biological transport, Dinitrophenol, 2,4-, Gastrointestinal system, Insect biochemistry, Periplaneta americana, Potassium, Sodium, Spectrophotometry.

**11877-69**

**DEVELOPMENT OF FOLEYELLA PHILISTINA SCHACHER AND KHALIL, 1967 (NEMATODA: FILARIOIDEA) IN CULEX PIPiens MOLESTUS WITH NOTES ON PATHOLOGY IN THE ARTHROPOD.**

J F Schacher G M Khalil

*J Parasitol* 54(5):869-878 REF

Oct 1968 448.8 J824

Cells, Culex pipiens molestus, Fat body, Larvae, Morphology, Nematodes, Parasitism.

**11878-69**

**HAEMOLYMPH PROTEINS AND YOLK FORMATION IN THE COCKROACH, LEUCOPHAEA MADERAE.**

R Scheurer

*J Insect Physiol* 15(9):1673-1682 REF

Sep 1969 421 J825

Egg yolks, Electrophoresis, Hemolymph, Insect biochemistry, Insect eggs, Leucophaea maderae, Ovaries, Proteins.

**11879-69**

**HORMONAL REGULATION OF THE METAMORPHOSIS-NEW ASPECTS BASED ON INVESTIGATIONS IN FORMICA POLYCTENA FOERST. (HYM.). (GE)**

G H Schmidt

*Acta Ent Bohemoslov* 65(2):79-91 REF

1968 420 C33

Cells, Emergence, Formica polyctena, Hormones, Insect histology, Insect metabolism, Insect physiology, Metamorphosis, Organophosphorus compounds, Secretion. English and Czech summaries.

**11880-69**

**SEX PHEROMONE OF THE QUEEN BUTTERFLY: ELECTROANTENNOGRAM RESPONSES.**

D Schneider U Seibt

*Science* 164(3384):1173-1174 REF

06 Jun 1969 470 SCI2

Antennae, Danaidae, Danaus gilippus berenice, Insect behavior, Pheromone, Sense organs, Sex behavior, Stimuli.

**11881-69**

**AMINO-ACID RECEPTOR IN LARVAE OF PIERIS BRASSICAE (LEPIDOPTERA).**

L M Schoonhoven

*Nature* 221(5187):1268

29 Mar 1969 472 N21

Amino acids, Chemoreceptors, Glycosides, Insect physiology, Larvae, Pieris brassicae, Sucrose.

**11882-69**

**ELECTRON-MICROSCOPE STUDIES OF A GRANULOSIS VIRUS OF PYGAERA ANASTOMOSIS.**

C Sidor R Krstic

*J Invertebrate Pathol* 13(1):19-24

Jan 1969 421 J826

Electron microscopy, Granuloses, Insect diseases, Larvae, Notodontidae, Pygaera anastomosis, Virology.

**11883-69**

**MIMICRY OF HYMENOPTERA BY BEETLES WITH UNCONVENTIONAL FLIGHT.**

R E Silberglied T Eisner

*Science* 163(3866):486-488

31 Jan 1969 470 SCI2

# ENTOMOLOGY

11884-69

Acmaeodera, Buprestidae, Hymenoptera, Insect flight, Insect physiology, Insect protective devices, Mimicry, Wings (insects).

11884-69

HOST TREES AND BREEDING SITES OF NATIVE NORTH AMERICAN PISSEDES BARK WEEVILS, WITH A NOTE ON SYNONYMY.

S G Smith B A Sugden

*Entomol Soc Amer Ann* 62(1):146-148

15 Jan 1969 420 EN82

Abies, Curculionidae, Cytology, Forest insects, Insect breeding, Insect ecology, Insect identification, Larix, Picea, Pinus, Pissodes, Pissodes terminalis, Pseudotsuga, Tsuga, Zoogeography.

11885-69

FAILURE OF EFFECTIVE INSEMINATION OF YOUNG FEMALE AEDES AEGYPTI MOSQUITOES.

A Spielman M G Leahy V Skaff

*J Insect Physiol* 15(9):1471-1479 REF

Sep 1969 421 J825

Aedes aegypti, Insect behavior, Insect physiology, Insemination, Reproduction.

11886-69

NEWER INSECTICIDES FOR THE CONTROL OF GRAPE INSECT AND SPIDER MITE PESTS.

E M Stafford H Kido

*Calif Agr* 23(4):6-8

Apr 1969 100 C12CAG

Acaricides, Grapes, Insecticides, Mites, Tetranychidae.

11887-69

FURTHER STUDIES ON GRADIENT-DEPENDENT DIVERSIFICATION IN THE PUPAL CUTICLE OF GALLERIA MELLONELLA.

H Stumpf

*J Exp Biol* 49(1):49-59 REF

Aug 1968 442.8 B77

Cuticle, Galleria mellonella, Galleriidae, Insect biology, Pupae, Tissue grafting.

11888-69

THE INFLUENCE OF GAMMA-IRRADIATION UPON THE POPULATION DYNAMICS AND SEX RATIO IN MODEL POPULATIONS OF DROSOPHILA MELANOGASTER. (RUS)

A S Surabjan

*Zhur Obshch Biol* 30(3, MAY-JUN):374-376

Jun 1969 442.8 Z6

Drosophila melanogaster, Gamma rays, Models, Population. Russian and english abstracts

11889-69

AN INVESTIGATION OF HAEMOLYMPH PROTEIN ECONOMY DURING THE FIFTH INSTAR OF LOCUSTA MIGRATORIA MIGRATORIOIDES.

S S Tobe B G Loughton

*J Insect Physiol* 15(9):1659-1672 REF

Sep 1969 421 J825

Hemolymph, Insect biochemistry, Larvae, Locusta migratoria migratoria, Proteins, Synthesis.

11890-69

A CRITICAL STUDY OF THE EVIDENCE FOR PERIPHERAL INHIBITORY AXONS IN INSECTS.

P N R Usherwood

*J Exp Biol* 49(1):201-222 REF

Aug 1968 442.8 B77

Acrididae, Inhibitors, Insect biology, Locusta migratoria, Muscles, Nerves, Romalea microptera, Schistocerca gregaria.

11891-69

BIOLOGY AND IMMATURE STAGES OF EU-METOPIELLA RUFIPES.

K Valley J A Novak B A Foote

*Entomol Soc Amer Ann* 62(1):227-234 REF

15 Jan 1969 420 EN82

Chaetopsis fulvifrons, Chloropidae, Echinochloa crusgalli, Echinochloa crusgalli frumentacea, Eribolus longulus, Eumetopilla rufipes, Insect

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biology, Insect ecology, Insect morphology, Insect physiology, Larvae, Osciella carbonaria, Otitidae, Pupae, Zoogeography.

11892-69

PROTEIN CHANGES IN THE HAEMOLYMPH OF PIERIS BRASSICAE DURING THE LAST LARVAL INSTARS AND THE BEGINNING OF THE PUPAL STAGE.

L P S Van Der Geest F H M Borgsteede

*J Insect Physiol* 15(9):1687-1693 REF

Sep 1969 421 J825

Electrophoresis, Insect biochemistry, Larvae, Pieris brassicae, Proteins, Pupae.

11893-69

MITES OR RED SPIDERS ON ORNAMENTALS.

L M Vasvary

*Rutgers State Univ Ext Leafl* (295-A):2P

1969 275.29 N46L

Acaricides, Chemical control (insects), Chlorinated hydrocarbons, Insect identification, Mites, Organophosphorus compounds, Ornamental plants, Plant injuries, Tetranychidae.

The following acaricides are listed: DDT, methoxychlor, chlorobenzilate, diazinon, dicofol, genite, ovek, and tetradifon.

11894-69

AGGREGATION BEHAVIOUR OF DENDROCTONUS BREVICOMIS IN RESPONSE TO SYNTHETIC PHEROMONES.

J P Vite G B Pitman

*J Insect Physiol* 15(9):1617-1622

Sep 1969 421 J825

Attractants, Dendroctonus brevicomis, Insect behavior, Pheromones.

11895-69

GENETIC HOMEOSTASIS IN DROSOPHILA MELANOGASTER.

P D Walton

*Can J Genet Cytol* 11(2):414-425 REF

Jun 1969 443.8 C16

Drosophila melanogaster, Geotropism, Insect genetics, Insect rearing, Models.

11896-69

THREE YEARS OF GROWTH OF A SERICO-MYRMEX COLONY.

N A Weber

*Entomol Soc Amer Ann* 62(1):244-245

15 Jan 1969 420 EN82

Experimental insects, Formicidae, Fungi, Insect physiology, Population, Sericomymex, Sericomymex urichi.

11897-69

ECOLOGICAL RELATIONS OF THREE ATTA SPECIES IN PANAMA.

N A Weber

*Ecology* 50(1, WINTER):141-147 MAP REF

1969 410 EC7

Atta cephalotes isthmica, Atta colombica tonipes, Atta sexdens, Climate, Formicidae, Insect ecology, Insect identification, Zoogeography.

11898-69

LYSOZYME ACTION ON THE COCKROACH, PERIPLANETA AMERICANA, AND ITS INTRACELLULAR SYMBIOTONS.

D R A Wharton J E Lola

*J Insect Physiol* 15(9):1647-1658 REF

Sep 1969 421 J825

Bacteria, Insect biochemistry, Insect physiology, Muramidase, Periplaneta americana, Symbiosis, Toxicology.

11899-69

HISTOLOGICAL CHANGES IN THE GONADS OF HOUSE FLIES FED NMETHYL P,P-BIS(I-AZIRIDINYL) PHOSPHINIC AMIDE AND P,P-BIS(I-AZIRIDINYL)-N-(3-METHOXYPROPYL) PHOSPHINOTHIOIC AMIDE.

J A Wilson

*Diss Abstr Sect B* 29(3):1055B

Sep 1968 Z5055.U49D53

Bis(I-aziridinyl)-N-(3-methoxypropyl)phosphinothioic amide, P, Bis(I-aziridinyl)-N-methylphosphinic amide, P,P, Chemical control (insects), Chemosterilants, Gonads, Histology, Insect behavior, Musca domestica, Reproductive organs, Sex behavior, Spermatophores, Tissue culture.

11900-69

OBSERVATIONS ON THE BIOLOGY OF SIX SPECIES OF ACARID MITES.

J P Woodring

*Entomol Soc Amer Ann* 62(1):102-108 REF

15 Jan 1969 420 EN82

Acaridae, Insect biology, Insect eggs, Insect pests, Insect physiology, Larvae, Mites, Sex ratios. The species discussed are: Caloglyphus anomalus, Histiopterus arborsignis, H. rotundus, Rhizoglyphus echinopus, Schwiebia falticus, and S. rocketti.

11901-69

ISOLATION OF POLYHEDRAL PRE-VIRAL DEOXYRIBONUCLEIC ACID FROM HEALTHY SILKWORMS.

K Yamafuji

*J Sericul Sci Jap* 36(4):341-345

Aug 1967 425.9 SE6

Biochemistry, Bombyx mori, Chromosomes, Deoxyribonucleic acid, Enzymes, Hydroxylamine, Insect genetics, Mutagens, Polyhedroses, Virology, Virus production. Japanese summary.

11902-69

SOME OBSERVATIONS ON THE PENTATOMIDES OF CEREALS AND THEIR PARASITISM IN 1965. (FR)

C Yamvrias

*Inst Phyto Pathol Benaki Ann (N s)* 8(2):74-77

1967 446.4 AT4

Aelia acuminata, Aelia rostrata, Diptera, Eurygaster austriacus, Eurygaster maurus, Grain, Hymenoptera, Insect eggs, Insect rearing, Parasitic insects, Pentatomidae, Time. Eight species of parasites are listed.

11903-69

THE PROMORPHOLOGY OF INSECT EGGS. (RUS)

Y A Zakhvatkin

*Zhur Obshch Biol* 30(4, JUL-AUG):426-441 REF

Aug 1969 442.8 Z6

Embryology, Insect eggs, Insect evolution, Insect morphology. English abstract

11904-69

THE MORPHOLOGY OF CLEAVAGE OF THE COLEMBOLA EGG. (RUS)

Y A Zakhvatkin

*Zool Zhur* 48(7):1029-1040 REF

Jul 1969 410 R92

Collembola, Embryology, Insect eggs, Insect morphology. Russian and english abstracts

# GENETICS

11905-69

CHROMOSOME NUMBER POLYMORPHISM IN AN AUSTRALIAN PONERINE ANT.

R H Crozier

*Can J Genet Cytol* 11(2):333-339 MAP REF

Jun 1969 443.8 C16

Chromosomes, Formicidae, Insect genetics, Population.

11906-69

DIFFERENCE IN ADSORPTION OF DYES TO THE TISSUES BETWEEN NORMAL SILKWORM AND TRANSPARENT MUTANT.

M Eguchi

*Sabco (soc Areas Biol Chem Overlap)* J 3(1-2):69-78 REF

Jul 1967 442.8 SO13

Adsorption, Bombyx mori, Dyes, Electrophoresis, Insect genetics, Insect mutation, Insect physiology. Japanese summary.

## BIBLIOGRAPHY

## CROP PROTECTION

11928-69

11907-69  
**THE PHENOMENON OF CROSS RESISTANCE IN INSECTS: EMPIRICAL, THEORETICAL, AND GENETICAL CONSIDERATIONS.**  
 J M Grayson D G Cochran  
*World Rev Pest Contr* 7(4, WINTER):172-175  
 REF  
 1968 79.8 W89  
 Insect genetics, Insecticide resistant insects, Insecticides.

11908-69  
**ABERRANT SEGREGATION: A NEW CASE IN DROSOPHILA MELANOGASTER.**  
 G D Hanks R O Torgerson  
*Can J Genet Cytol* 11(2):305-316 REF  
 Jun 1969 443.8 C16  
 Chromosomes, Drosophila melanogaster, Insect genetics.

11909-69  
**MALE GONADAL DYSGENESIS IN A FEMALE-STERILE MUTANT OF DROSOPHILA MELANOGASTER.**  
 J C Lucchesi S J Counce P E Hildreth  
*J Exp Zool* 168(4):437-449 REF  
 Aug 1968 410 J825  
 Drosophila melanogaster, Genetics, Gonads, Insect abnormalities, Mutation, Sterility.

11910-69  
**INFLUENCE OF SOME GENES ON THE DEVELOPMENT OF WINGED FORMS SUCH AS THE GREEN PEACH APHID (MYZUS PER-SICAE SULZ.). (CZ)**  
 J Praslicka  
*Biologia (bratislava)* 22(12):900-907 REF  
 1967 442.8 25265  
 Aphididae, Homoptera, Insect genetics, Insect morphology, Myzus persicae, Wings (insects). German, Russian and Czech abstracts

11911-69  
**X-RAY-INDUCED MULTIPLE ABERRATIONS AMONG OOCYTES OF DROSOPHILA MELANOGASTER.**  
 R R Rinehart F J Ratty  
*Mutation Res* 7(1, JAN-FEB):122-125  
 1969 443.8 M98  
 Chromosomes, Drosophila melanogaster, Electron microscopy, Insect abnormalities, Insect genetics, Ovaries, X-rays.

11912-69  
**JUVENILE HORMONE: EFFECTS ON A HIGHER DIPTERAN.**  
 V S Srivastava L I Gilbert  
*Science* 161(3836):61-62  
 05 Jul 1968 470 SCI2  
 Diptera, Insect biochemistry, Insect genetics, Juvenile hormone, Metamorphosis, Sarcophaga bullata.

**MEDICAL ENTOMOLOGY**

11913-69  
**BANDICOTA INDICA AND SYLVATIC PLAGUE IN VIETNAM.**  
 L Kartman  
*Roy Soc Trop Med Hyg Trans* 62(6):902-903  
 1968 448.9 R813  
 Epidemiology, Insect vectors, Pasteurella pestis, Plague, Rats, Rodents, Serum, Surveys, Xenopsylla cheopis.

**CROP PROTECTION**

11914-69  
**NATIONAL VEGETABLE RESEARCH STATION: SEVENTEENTH ANNUAL REPORT, 1966.**  
 Anonymous  
*Nat Veg Res Sta Annu Rep* 17:96P MAP

1967 84 W45  
 Chemical control (insects), Insect pests, Irrigation, Plant breeding, Plant diseases, Plant nutrition, Plant physiology, Vegetables, Weather, Weed control. Many plant diseases and insect pests are discussed along with their control measures.

11915-69  
**RESISTANCE DISCOVERED TO MAIZE BORER.**  
 Anonymous  
*World Farming* 11(2):18  
 Feb 1969 30.08 W89  
 Corn, Dimboia, Herbicides, Insect pests, Ostrinia nubilalis, Plant pest resistance, Plant physiology, Scolytidae.

11916-69  
**THE INTERNATIONAL RICE RESEARCH INSTITUTE ANNUAL REPORT, 1967.**  
 Anonymous  
*Int Rice Res Inst Annu Rep* 6:308P REF  
 1967 59.9 IN86A  
 Agricultural economics, Agricultural statistics, Chemical control (insects), Crop varieties, Insect pests, Insecticides, Plant diseases, Plant physiology, Rice, Soil biology, Weather.

11917-69  
**GROWING TRELLISED TOMATOES IN WESTERN NORTH CAROLINA.**  
 A A Banadyga H E Duncan J W Glover H L Liner H E Scott R E Sneed W A Skroch J C Wells  
*Nc Ext Ext Circ* (475):26P  
 Dec 1969 275.29 N811  
 Crop varieties, Plant breeding, Tomatoes, Trellises. Includes data on weed control, insect control, fruit disorders, and sprayers for disease control.

11918-69  
**CONTRIBUTION TO THE CYTOLOGY OF HYMENOMYCETES: VII. KARYOLOGICAL STUDIES IN POLYPORUS AGARICEUS BERK.**  
 S Banerjee B Nandi  
*Indian J Mycol Res* 4(112):32-40 REF  
 1966 450 IN29  
 Cell nucleus, Fungus diseases (plants), Hymenomycetes, Plant cytology, Polyporus, Shorea robusta.

11919-69  
**WOOD AND ORGANISMS; INTERNATIONAL SYMPOSIUM, BERLIN-DAHLEM, 1965. (GE)**  
 G Becker W Liese  
*Holz Organ* 1:543P  
 1966 QK604.H6  
 Biochemistry, Ecology, Insect pests, Plant morphology, Plant physiology, Symposia, Wood, Wood destroying fungi.

11920-69  
**PRELIMINARY STUDIES ON THE EFFECT OF SINGLE AND COMBINED TREATMENTS OF X-RAYS AND GIBBERELLIC ACID ON THE GROWTH OF RICE AND TOMATO SEEDLINGS.**  
 S Bose  
*Mysore J Agr Sci* 2(1):58-60  
 1968 S19.M9  
 Gibberellic acid, Plant physiology, Rice, Seed germination, Seedlings, Tomatoes, X-rays.

11921-69  
**PHYSICAL METHODS OF PEST CONTROL.**  
 W M Carleton L A Liljedahl  
*Wash Acad Sci J* 57(3):61-69 REF  
 Mar 1967 500 W276J  
 Biological control (insects), Chemical control (pests), Cultural control (weeds), Insect behavior, Life cycle, Light, Pest control, Radiation, Soil-borne plant diseases, Sound waves, Temperature.

11922-69  
**CHARACTERISTICS OF THE USE OF THE FUMIGANT DI-TRAPEX, A FUNGICIDE AND NE-MATOCIDE. (IT)**  
 A Formigoni  
*Notiz Mal Pianta (SER 3)(3/4):177-186* REF

1967 464.8 N84  
 Dichloropropane dichloropropene mixture, Economic plants, Flowers, Fumigants, Fungicides, Fusarium, Methyl isothiocyanate, Nematocides, Ornamental plants, Soil fumigation, Vegetables. French and German summaries.

11923-69  
**OBSERVATIONS ON ASSOCIATED COMPLEXES NEMATODES-FUNGI IN CONNECTION WITH DAMAGES TO FLOWER GROWING AND HORTICULTURE AND MEANS OF CONTROL. (IT)**  
 F Garofalo  
*Notiz Mal Pianta (SER 3)(3/4):187-216* REF  
 1967 464.8 N84  
 Chemical control (pests), Chlorinated hydrocarbons, Dibromo-3-chloropropane, 1,2-, Diethyl O-2-pyrazinyl phosphorothioate, O,O-, Fumigants, Fungus diseases (plants), Mercury, Organic compounds, Pentachloronitrobenzene, Plant nematodes, Vegetables. English and French summaries.

8 associative complexes were observed; 3 for Diptychus dipsaci which were with Rhizoctonia solani for the celery, Sclerotinia minor for the salad, and S. sclerotiorum for the hydrangea; 2 for Heterodera marioni which were with Fusarium lycopersici for the tomato and R. solani for the cyclamen; 3 for Aphelenchoides ritzema-bosi which were with R. solani for the strawberry, F. oxysporum for the chrysanthemum, and Verticillium dahliae for the dahlia.

11924-69  
**GENETIC EFFECT OF IRRADIATION BY X-RAYS ON SEEDS OF ZEA MAYS. INFLUENCE OF HIGH-TEMPERATURE TREATMENT BEFORE THE IRRADIATION ON THE IMMEDIATE EFFECT. (FR)**  
*Mutation Res* 7(1, JAN-FEB):35-42 REF  
 1969 443.8 M98  
 Corn, Irradiation, Plant genetics, Seeds, Temperature, X-rays. English summary.

11925-69  
**THE INFLUENCE OF SPRAY PROGRAMS ON THE FAUNA OF APPLE ORCHARDS IN NOVA SCOTIA. XIX. APPLE RUST MITE, VASATES SCHLECHTENDALI, A FOOD SOURCE FOR PREDATORS.**  
 H J Herbert K H Sanford  
*Can Entomol* 101(1):62-67  
 Jan 1969 421 C16  
 Acaricides, Aculus schlechtendali, Apples, Arthropoda, Chemical control (insects), Experimental insects, Insect adaptation, Mites, Orchards, Panonychus ulmi, Predaceous insects, Spraying, Sulfides, Tetrasul, Zoogeography.

11926-69  
**PROGRESS IN THE FIELD OF SYSTEMIC INSECTICIDES AND HOPES FOR THE FUTURE.**  
 N E Johnson  
*Arborists News* 37(7):8 P.  
 Jul 1968 99.8 AR14  
 Agricultural outlook, Evaporation, Insecticides, Plants, Toxicology, Water.

11927-69  
**THE COMPLEX OF FUNGI ESSENTIAL TO THE GROWTH AND DEVELOPMENT OF XYLEBORUS SHARPI IN WOOD.**  
 D M Norris  
*Holz Organ* 1:523-529 REF  
 1966 QK604.H6  
 Fungi, Fungus diseases (plants), Insect pests, Plant physiology, Platypodidae, Symbiosis, Ulmus americana, Wood, Xyleborus sharp. German and French summaries.

11928-69  
**SELECTED LIST, 1969 VEGETABLE VARIETIES FOR SOUTH DAKOTA.**  
 P Prasher D Martin  
*S Dak State Univ Ext Ext Mimeogr Circ* 431:8P MAP  
 1969 275.29 SO85FS

# CROP PROTECTION

11929-69

Crop varieties, Plant disease resistance, Planting date, Vegetables.

11929-69

OCCURRENCE OF INDOLEACETIC ACID IN THE BRYOPHYTES.

M J Schneider R F Troxler P D Voth  
*Bot Gaz* 128(3):174-179 REF

Sep 1967 450 B652

Biological assay, Bryophytes, Chromatography, Extracts, Indoleacetic acid, Tissues.

11930-69

WALDRON, A NEW HIGH-YIELDING HRS WHEAT.

G Smith R C Frohberg L D Sibbitt D C Ebeltoft  
*N Dak Farm Res* 26(3, JAN-FEB):4-7  
1969 100 N813B  
Baking, Crop varieties, Crop yields, Milling, Plant disease resistance, Wheat.

## DISEASES

11931-69

SELECTION FOR RESISTANCE AND CHEMICAL CONTROL OF RHIZOCTONIA ROOT ROT DISEASE OF SUGARBEETS.

M M Afanasiev D E Baldridge  
*Amer Soc Sugar Beet Technol J* 15(2):151-158  
Jul 1968 66.9 AM35J  
Chemical control (plant diseases), Dihydro-5-carboxanilido-6-methyl-1,4-oxathia, 2,3-, Fungus diseases (plants), Pentachloronitrobenzene, Plant breeding, Plant disease resistance, Potassium azide, Rhizoctonia, Root rot, Sugar beets.

Resistance to root rot in sugar beets, caused by the fungus Rhizoctonia, was developed by selective breeding. Use of Terrachlor (pentachloronitrobenzene) was shown to be an effective control for the disease.

11932-69

SOME PROPERTIES OF MITOCHONDRIA AND RIBOSOMES OF INFECTED PLANT TISSUES. (RUS)

U A Aksanova B A Rubin R V Savchenko A I Brynza  
*Biokhimiya* 33(3, MAY-JUN):527-536 REF  
1968 385 B523  
Botrytis cinerea, Cabbage, Fungus diseases (plants), Mitochondria, Peroxidases, Plant biochemistry, Plant tissues, Proteins, Ribonucleic acid, Ribosomes.

11933-69

MORE ON THE CONTROL OF COLLAR ROT OF CHICORY PLANTS. (IT)

P Alghisi  
*Notiz Mal Pianta* (SER 3)(3/4):95-106  
1967 464.8 N84  
Captan, Chemical control (plant diseases), Chicory, Chlorinated hydrocarbons, Collar rot, Folpet, Fungicides, Fungus diseases (plants), Pentachloronitrobenzene, Sclerotinia minor. English summary.

11934-69

CONTROL OF POST-EMERGENCE DAMPING OFF IN VETCH WITH DEXON.

R N Allen  
*Australian J Exp Agr Anim Illus* 8(35) 767-770  
Dec 1968 23 AU792  
Chemical control (plant diseases), Damping-off, Dimethylamino)benzenediazo sodium sulfonate, p, Fungus diseases (plants), Pythium debaryanum, Vicia sativa.

11935-69

EXPERIMENT IN SOIL DISINFECTION AGAINST PHIALOPHORA CINERESCENS (WR.) V. BEYMA IN THE PESCHIA DISTRICT. (IT)

E Andreucci  
*Notiz Mal Pianta* (SER 3)(3/4):107-119  
1967 464.8 N84

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Chemical control (plant diseases), Dianthus caryophyllus, Dichloropropene dichloropropene mixture, Fungus diseases (plants), Fusarium roseum, Methyl bromide, Phialophora cinerescens, Sodium N-methylthiocarbamate, Soil fungi, Soil sterilization, Wilt disease (plants). English summary.

11936-69

INHERITANCE OF RESISTANCE IN CARROT, DAUCUS CAROTA VAR. SATIVA, TO THE LEAF SPOT FUNGUS, CERCOSPORA CAROTAE.

F F Angell W H Gabelman  
*Amer Soc Horticult Sci Proc* 93:434-437  
Dec 1968 81 SO12

Carrots, Cercospora carotae, Fungus diseases (plants), Greenhouse culture, Heredity, Leaf spot, Plant breeding, Plant disease resistance, Seedlings.

11937-69

RUST OF STONE FRUITS.

Anonymous  
*Horticultural Abs* 38(3):687  
Sep 1968 241 IM74  
Fruit, Fungus diseases (plants), Rust, Uredinales.

11938-69

APPLE BITTER ROT.

Anonymous  
*Horticultural Abs* 38(3):684  
Sep 1968 241 IM74  
Apples, Bitter rot, Fungus diseases (plants).

11939-69

POWDERY MILDEW OF THE GRAPEVINE.

Anonymous  
*Horticultural Abs* 38(3):689  
Sep 1968 241 IM74  
Fungus diseases (plants), Grapes, Powdery mildew.

11940-69

VIRUS DISEASES OF DECIDUOUS FRUIT TREES: APPLE MOSAIC.

Anonymous  
*Horticultural Abs* 38(3):681  
Sep 1968 241 IM74  
Apples, Fruit, Mosaic, Trees, Virus diseases (plants).

11941-69

PLANT PATHOLOGY.

Anonymous  
*Int Rice Res Inst Annu Rep* 6:81-113  
1967 59.9 IN86A

Bacterial diseases (plants), Bacterial leaf blight, Crop varieties, Insect vectors, Nephrotettix impicticeps, Plant disease resistance, Rice, Tungro disease, Virus diseases (plants), Yellow dwarf.

11942-69

SURVEYS OF APPLE SCAB INFECTION SEVERITY IN CRABAPPLE SELECTIONS 1961-1965.

H S Bagga D M Boone  
*Amer Soc Horticult Sci Proc* 93:293-299 REF  
Dec 1968 81 SO12

Apples, Crabapples, Fungus diseases (plants), Plant disease resistance, Scab, Surveys.

11943-69

ON THE BIOLOGY OF TRAMETES LACTinea BERK. IN CULTURE.

S Banerjee N C Banerjee  
*Indian J Mycol Res* 4(112):1-21 MAP REF  
1966 450 IN29  
Biology, Culture media, Fungus diseases (plants), Plant geography, Plant morphology, Trametes lactinea, Tree diseases, Wood destroying fungi.

11944-69

STEM PITTING OF PEACH.

J G Barratt S M Mirceitch H W Fogle  
*Horticultural Abs* 38(3):679  
Sep 1968 241 IM74  
Peaches, Plant diseases, Stem pitting.

11945-69

HOW TO CONTROL DIEBACK IN AZALEAS AND RHODODENDRONS.

L W Baxter S U Brown W T Mercier  
*S C Agr Exp Sta Agr Res* 15(1-2):7  
1968 100 SO850

Azalea, Cultural control (plant diseases), Dieback, Fungus diseases (plants), Phomopsis, Phytophthora cactorum, Rhododendron.

11946-69

UREDOSPORE STORAGE IN BREEDING FOR CROWN RUST RESISTANT ANNUAL RYEGRASS.

H W Bennett  
*Crop Sci* 8(5):627-628  
Sep 1968 64.8 C883

Breeding, Crown rust, Lolium multiflorum, Plant disease resistance, Plant diseases, Puccinia coronata, Temperature.

11947-69

REMARKS ON THE PRACTICE OF GRAFTING AND SOIL DISINFECTION WITH METHYL BROMIDE AND WITH DI-TRAPEX IN THE CONTROL OF VERTICILLIUM WILT OF GREENHOUSE TOMATO PLANTS. (IT)

G Bestagno A Cagna  
*Notiz Mal Pianta* (SER 3)(3/4):121-127  
1967 464.8 N84

Biological control (plant diseases), Chemical control (plant diseases), Dichloropropene dichloropropene mixture, Fungus diseases (plants), Greenhouse culture, Methyl bromide, Methyl isothiocyanate, Plant grafting, Soil sterilization, Tomatoes, Verticillium, Wilt disease (plants). English summary.

11948-69

REMARKS ON THE EFFICIENCY OF SOIL DISINFECTION, USING STEAM AND VARIOUS FUMIGANTS, IN THE CONTROL OF VERTICILLIUM WILT OF GREENHOUSE TOMATO PLANTS. (IT)

G Bestagno A Cagna  
*Notiz Mal Pianta* (SER 3)(3/4):129-134  
1967 464.8 N84

Chemical control (plant diseases), Dichloropropene dichloropropene mixture, Fumigants, Fungus diseases (plants), Greenhouse culture, Methyl bromide, Methyl isothiocyanate, Sodium N-methylthiocarbamate, Soil sterilization, Steam, Tomatoes, Verticillium, Wilt disease (plants). English summary.

11949-69

A CONTRIBUTION TO THE KNOWLEDGE OF THE VIRUSES AND VIRUSSUSPECT DISEASES OF OAKS (QUERCUS spp.). (GE)

C Blatny Z Prochazkova

*Rev Roumaine Biol Ser Bot* 11(1/3):39-42  
1966 QK1.R4

Insect vectors, Mosaic, Plant disease transmission, Quercus, Quercus petraea, Quercus robur, Symptomatology, Tree diseases, Virus diseases (plants).

11950-69

OBSEVATIONS ON CRINKLE DISEASE OF HOPS (HUMULUS LUPULUS L.). (GE)

C Blatny J Limberk Z Prochazkova J Pozdena

*Phytopathol Z* 58(4):334-356 REF  
Apr 1967 464.8 P562

Crinkle, Hops, Plant grafting, Virus diseases (plants). English summary

11951-69

ABOUT FOOT- AND STEM DISEASES OF WHEAT WITH SPECIAL CONSIDERATION OF (2-CHLOROETHYL) TRIMETHYLMAMMONIUM CHLORIDE. (GE)

H Bockmann

*Sitzung Ned Graan-cent Tech Ber* 17:17-28  
Dec 1967 59.9 ST52TB

Cercosporalla herpotrichoides, Chloroethyl)trimethylammonium chloride, (2-Crop varieties, Crop yields, Fungus diseases (plants), Fusarium, Plant growth inhibitors, Septoria, Tables (data), Wheat.

**11952-69**  
**ON THE SEED GERMINATION OF PHOMA SPECIES OF VALERIANELLA. (GE)**  
 G H Boerema C B de Jong  
*Phytopathol Z* 61(4):362-371  
 Apr 1968 464.8 P562  
 Fedia cornucopiae, Fungi, Immunity, Injections, Phoma, Plant hardness, Seed germination, Seed-borne plant diseases, Seedlings, Valerianella. English summary

**11953-69**  
**ERWINIA AMYLOVORA (BURR.) WINSL. IN POLAND. (GE)**  
 Z Borecki K Lyskanowska  
*Horticultural Abs* 38(3):683  
 Sep 1968 241 IM74  
 Apples, Bacterial diseases (plants), Erwinia amylovora, Pears.

**11954-69**  
**BREEDING STUDIES OF VERTICILLIUM WILT RESISTANCE IN X FRAGARIA ANANAS-SC DUCH. (GE)**  
 H H Bowen L F Hough E H Varney  
*Amer Soc Horticult Sci Proc* 93:340-351 REF  
 Dec 1968 81 SO12  
 Crop varieties, Fungus diseases (plants), Plant breeding, Plant disease resistance, Seedlings, Strawberries, Verticillium, Wilt.

**11955-69**  
**OBSERVATIONS AND INVESTIGATIONS ON VINE ENATION DISEASE. (GE)**  
 H Bruckbauer  
*Horticultural Abs* 38(3):682-683  
 Sep 1968 241 IM74  
 Enation, Grapes, Virus diseases (plants).

**11956-69**  
**ALTERNARIA TENUIS NEES, PROBABLE CAUSE OF PINK BELLY IN WHEAT. (SP)**  
 M D Caglevic  
*Agri Tec* 27(3,JUL-SEP):134-136  
 1967 464.9 C432B  
 Alternaria tenuis, Black point, Fungus diseases (plants), Helminthosporium, Necrosis, Puccinia recondita, Septoria tritici, Wheat. English summary.

**11957-69**  
**A ROOT ROT OF RED RASPBERRY CAUSED BY PHYTOPHTHORA ERYTHROSEPTICA. (GE)**  
 R H Converse C D Schwartz  
*Horticultural Abs* 38(3):687-688  
 Sep 1968 241 IM74  
 Fungus diseases (plants), Phytophthora erythroseptica, Raspberries, Root rot.

**11958-69**  
**MICRO-MORPHOLOGICAL CHANGES OF LIGNIFIED CELL WALLS PRODUCED BY BASIDIOMYCETES (BROWN ROT FUNGI). (GE)**  
 H Courtois  
*Holz Organ* 1:41-53 REF  
 1966 QK604.H6  
 Ascomycetes, Basidiomycetes, Brown rot, Cell wall, Fagus, Fungus diseases (plants), Lignification, Picea, Plant morphology, Wood destroying fungi. English and French summaries.

**11959-69**  
**YELLOW LEAF ROLL VIRUS ON THE MOVE. (GE)**  
 D Curlee  
*Horticultural Abs* 38(3):681-682  
 Sep 1968 241 IM74  
 Insect vectors, Leaf roll, Nectarines, Peaches, Virus diseases (plants).

**11960-69**  
**MICROBIAL DECOMPOSITION OF METHYL-MERCURY DICYANDIAMIDE. (PO)**  
 E Czerwinska Z Janko R Rowalik H Stetaniak  
*Roczn Nauk Roln* 95(2):220-228  
 1969 20.5 R59

**Cyanoguanidine, Decomposition, Mercury compounds, Microorganisms, Plant protection. Russian and English abstracts.**

**11961-69**  
**THE PROBLEM OF ACUTE WILTING OF APRICOTS IN THE SKOPJE REGION. (FR)**  
 T Dimitrovski  
*Horticultural Abs* 38(3):679  
 Sep 1968 241 IM74  
 Apricots, Fungus diseases (plants), Plant protection, Wilt.

**11962-69**  
**STUDIES ON THE DECONTAMINATION OF SOIL WITH METHYL BROMIDE. (GE)**  
 V U G Drosihn B R Stephan G M Hoffmann  
*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 75(5):272-287  
 May 1968 464.8 Z3  
 Fungus diseases (plants), Fusarium oxysporum, Methyl bromide, Phialophora, Sclerotinia sclerotiorum, Soils, Verticillium albo-atrum. English summary

**11963-69**  
**EFFECT OF PRUNING ON SILVER-LEAF DISEASE (STEREUM PURPUREUM (PERS.) FR.) AND YIELD OF PEACH AND NECTARINE TREES. (GE)**  
 M H Dye  
*New Zeal J Agr Res* 10(3-4,AUG-NOV):435-444  
 Nov 1967 23 N4892  
 Crop yields, Fungus diseases (plants), Nectarines, Peaches, Pruning, Silver leaf.  
 In a field trial comparing different methods and times of pruning, 260 of the peach trees and all of the nectarine trees receiving standard winter pruning were infected with silver-leaf disease (Stereum purpureum (Pers.) Fr.). However, no infection occurred in trees pruned shortly after harvesting the fruit. Application of wound dressing to most but not all cuts reduced the number of winterpruned trees becoming infected in some years.

**11964-69**  
**PHYTOPHTHORA CINNAMOMI CAUSING A BASAL ROT OF CHAMAECYPARIS LAWSONIANA AND ITS VARIETIES. (GE)**  
 S G Evans  
*Plant Pathol* 17(3):143-144  
 Sep 1968 464.8 P692  
 Chamaecyparis lawsoniana, Fungus diseases (plants), Nurseries, Phytophthora cinnamomi, Root rot.

**11965-69**  
**INVESTIGATION OF CORKING DISORDERS OF APPLES. III. BIOCHEMICAL CHANGES DURING THE DEVELOPMENT OF CORK SPOT OF 'YORK IMPERIAL' APPLES. (GE)**  
 M Faust C B Shear  
*Amer Soc Horticult Sci Proc* 93:746-752 REF  
 Dec 1968 81 SO12  
 Apples, Cork spot, Crop varieties, Ethylene, Lipoproteins, Plant abnormalities, Plant biochemistry, Plant respiration.

**11966-69**  
**ECOLOGY OF WOOD-DESTROYING AND WOOD-INHABITING FUNGI. (GE)**  
 W P K Findlay  
*Holz Organ* 1:199-211 REF  
 1966 QK604.H6  
 Ecology, Fungus diseases (plants), Nutrient solutions (plants), Temperature, Water, Wood, Wood destroying fungi. German and French summaries.

**11967-69**  
**LIGNICOLOUS FUNGI OF FRESHLY FELLED TIMBER IN TROPICAL AFRICA. (FR)**  
 M Fougerousse  
*Holz Organ* 1:343-349  
 1966 QK604.H6  
 Ceratostysis, Cytospora, Fungus diseases (plants), Fusarium, Lignin, Physalospora rhodina, Timber, Tropical woods, Wood destroying fungi, Wood staining fungi. English and German summaries.

**11968-69**  
**STUDIES ON HYPERTROPHIC DISEASE OF CHERRY (GENUS PRUNUS), SO-CALLED WITCH'S BROOM CAUSED BY TAPHRINA WIESNERI. II ON THE PHENOLIC ACIDS AND THEIR RELATED COMPOUNDS, ESPECIALLY ON MELILOLIC ACID IN INFECTED JAPANESE FLOWERING CHERRY LEAVES. (GE)**  
 S Fujii H Aoki M Komoto M Katsura  
*Agri Biol Chem* 32(7):816  
 Jul 1968 385 AG8B  
 Cherries, Fungus diseases (plants), Hydroxyhydrocinnamic acid, o-, Hypertrophy, Leaves, Phenols, Taphrina, Witches' broom.

**11969-69**  
**STUDIES ON THE HYPERTROPHIC DISEASE OF CHERRY (GENUS PRUNUS), SO-CALLED WITCH'S BROOM CAUSED BY TAPHRINA WIESNERI. I. ON THE METABOLITES OF T. WIESNERI. (GE)**  
 S Fujii H Aoki M Komoto K Munakata T Tamura  
*Agri Biol Chem* 32(7):810-815  
 Jul 1968 385 AG8B  
 Cherries, Fungus diseases (plants), Hypertrophy, Metabolites, Research, Taphrina, Witches' broom.

**11970-69**  
**THE EFFECT OF A TEMPERATURE OF 35 DEGREES C. ON VITIS RUPESTRIS AFFECTED BY COURTNOU. (GE)**  
 R Galzy  
*Horticultural Abs* 38(3):682  
 Sep 1968 241 IM74  
 Fanleaf (grapes), Plant physiology, Temperature, Virus diseases (plants), Vitis rupestris.

**11971-69**  
**MICRO-ORGANISMS IN THE ROOT REGIONS OF WHEAT. LITERATURE REVIEW. (GE)**  
 W Gams  
*Berlin Biol Bundesanst Land-forstwirtsch Mitt* 123:77P REF  
 Jun 1967 410.9 G31M  
 Agrobacterium, Aureobasidium bolleyi, Bacterial diseases (plants), Cylindrocarpon radicicola, Flavobacterium, Fungus diseases (plants), Fusarium, Literature, Mycobacterium, Pseudomonas, Roots, Soil microorganisms, Soil-borne plant diseases, Wheat. English summary.

**11972-69**  
**BREEDING FOR RHIZOCTONIA RESISTANCE IN SUGARBEET. (GE)**  
 J O Gaskill  
*Amer Soc Sugar Beet Technol J* 15(2):107-119 REF  
 Jul 1968 66.9 AM35J  
 Fungus diseases (plants), Plant breeding, Plant disease resistance, Rhizoctonia solani, Sugar beets.

**11973-69**  
**BLOSSOM-END ROT OF 'CHICO' AND 'CHICO GRANDE' TOMATOES. (GE)**  
 C J Gerard B W Hipp  
*Amer Soc Horticult Sci Proc* 93:521-531 REF  
 Dec 1968 81 SO12  
 Blossom end rot, Calcium, Climate, Crop varieties, Plant physiological diseases, Plant transpiration, Potassium, Tomatoes.

**11974-69**  
**CALONECTRIA UNISEPTATA N. SP., THE HITHERTO UNKNOWN PERFECT STAGE OF CYLINDROCLADIUM SCOPARIUM MORGAN. (GE)**  
 W Gerlach  
*Phytopathol Z* 61(4):372-381 REF  
 Apr 1967 464.8 P562  
 Calonectria, Culture media, Cylindrocladium scoparium, Cyphipedium callosum, Fungi, Fungus diseases (plants), Morphology. English summary

**11975-69**  
**WHAT'S NEW IN FARM CHEMICALS. (GE)**  
 M T Goebels  
*Citrus Vet Mag* 32(5):16  
 Jan 1969 80 C498

Agricultural chemistry, Biological control (insects), Chemical control (plant diseases), Chemical control (weeds), Chemosterilants, D, 2,4-, Fungicides, Herbicides, Insecticides, Phenoxy acid compounds, Plant nematodes, Soil fumigation.

11976-69

## THE EFFECT OF BACTERIAL ACTION ON SOME WOOD CUBES IN SHAKE CULTURE.

H Greaves

*Holz Organ* 1:61-67

1966 QK604.H6

*Bacillus polymyxa*, Bacterial diseases (plants), Betula, Culture media, *Fagus sylvatica*, *Pinus sylvestris*, Wood. German and French summaries.

11977-69

## STEM RUST OF WHEAT, BARLEY, AND RYE IN CANADA IN 1968.

G J Green

*Can Plant Dis Surv* 48(3):104-106

Sep 1968 464.9 C16S

Barley, Fungus diseases (plants), *Puccinia graminis*, *Puccinia graminis tritici*, Rye, Stem rust, Wheat.

11978-69

## POLYPHENOLOXIDASE ACTIVITY IN BACTERIALLY INDUCED GRAYWALL OF TOMATO FRUIT.

C B Hall F W Knapp R E Stall

*Phytopathology* 59(2):267-268

Feb 1969 464.8 P56

Assay, Bacterial diseases (plants), Biochemistry, Enzymes, Phenolases, Tomatoes.

11979-69

RESEARCH ON THE METABOLISM OF VIRUS-INFECTED PLANTS. V. INFLUENCE ON THE CHANGES IN METABOLISM IN *PHASEOLUS VULGARIS* L. AFTER INFECTION WITH TOBACCO NECROSIS VIRUS BY LIGHT DEFICIENCY. (GE)

H Hofferer

*Phytopathol Z* 58(4):357-366 REF

Apr 1967 464.8 P562

Carbohydrates, Deficiency diseases, Kidney beans, Light, Metabolism, Necrosis, Research, Tobacco, Virus diseases (plants). English summary

11980-69

## THE ANATOMY OF TUMORS INDUCED ON CITRUS BY CITRUS VEIN-ENATION VIRUS.

G R Hooper H Schneider

*Amer J Bot* 56(2):238-247 REF

Feb 1969 450 AM36

Anatomy, Bergamot, Citrus, Crown galls, Leaves, Vein enation, Veins, Virology, Virus diseases (plants).

11981-69

## INHERITANCE OF RESISTANCE TO POWDERY MILDEW IN THE CULTIVATED STRAWBERRY.

C S Hsu R Watkins A T Bolton P S Spangelo

*Can J Genet Cytol* 11(2):426-438 REF

Jun 1969 443.8 C16

Fungus diseases (plants), Inheritance, Plant breeding, Plant disease resistance, Plant diseases, Plant genetics, Powdery mildew, Strawberries.

11982-69

## A QUANTITATIVE STUDY OF THE INHERITANCE OF RESISTANCE TO BACTERIAL BLIGHT IN UPLAND COTTON.

N L Innes S J Brown

*J Agr Sci & London &* 73(1):15-23 REF

Aug 1969 10 J822

Bacterial blight, Bacterial diseases (plants), Cotton, Inheritance, Plant disease resistance, Plant diseases, Plant genetics.

11983-69

## SYMPTOMS OF RASP LEAF VIRUS DISEASE ON PEACH. (SE)

M Jordovic

*Zastita Bilja* 18(93/95):143-145

1967 464.8 Z1

Cherries, Leaf conation, Peaches, Plant budding, Plant disease transmission, Seedlings, Virus diseases (plants). English summary.

11984-69

## CHANGE IN TRANSMISSIBILITY OF BEAN YELLOW MOSAIC VIRUS BY APHIDS.

J A Kamm

*Entomol Soc Amer Ann* 62(1):47-50 REF

15 Jan 1969 420 EN82

*Acyrthosiphon pisum*, Aphididae, Beans, *Crotalaria spectabilis*, Epidemiology, Genetics, Insect vectors, *Macrosiphum albifrons*, Mutation, *Myzus persicae*, Plant disease transmission, Virus diseases (plants), Yellow mosaic.

11985-69

## FRUIT SYMPTOMS OF THE WHITE SPOT DISEASE ON SWEET CHERRIES.

W Kampe

*Horticultural Abs* 38(3):679

Sep 1968 241 IM74

Fruit, Mazzard cherries, Plant diseases, White spot.

11986-69

## UNUSUAL STRAINS OF PHYTOPATHOGENIC VIRUSES. (RUS)

O S Kapitza

(4 JUL-AUG):519-531 REF

Aug 1969

Mosaic, Peas, Plant diseases, Rattle disease, Tobacco, Virology, Virus diseases (plants). English abstract.

11987-69

## SAFFLOWER INTRODUCTION RESISTANT TO FUSARIUM WILT.

P F Knowles J M Klisiewicz A B Hill

*Crop Sci* 8(5):636-637

Sep 1968 64.8 C883

*Aspidiota perniciosus*, Fungus diseases (plants), *Fusarium oxysporum*, Insect pests, Plant disease resistance, Safflower, Seedlings, Wilt.

11988-69

## FUSARIUM OXYSPORUM (SCHLECHT.) SNYD. ET HANS.- A DOMINANT FUNGUS SPECIES ON THE ROOT-SURFACE OF WOODY PLANT SEEDLINGS.

J Kubikova

*Plant Soil* 28(2):306-312 REF

Apr 1968 450 P696

Climbing plants, *Cylindrocarpus radicicola*, Ecology, Fungus diseases (plants), *Fusarium oxysporum*, Morphology, Nurseries, Roots, Seedlings.

11989-69

## YELLOW VIRUS EFFECTS ON MACRO- AND MICRO-ELEMENTS IN 'MONTMORENCY' SOUR CHERRY LEAVES.

S S Kwong K G Parker

*Amer Soc Horticult Sci Proc* 93:115-118

Dec 1968 81 SO12

Leaves, Magnesium, Phosphorus, Plant biochemistry, Potassium, Sour cherries, Symptomatology, Virus diseases (plants), Yellows, Zinc.

11990-69

## CONTROL OF BLIGHT DISEASES OF POTATO IN WEST BENGAL PLAINS BY VARIOUS SPRAY FUNGICIDES.

J N Laha A Pal B K Roy

*Indian J Mycol Res* 4(112):41-45

1966 450 IN29

*Alternaria solani*, Chemical control (plant diseases), Early blight, Fungicides, Fungus diseases (plants), Late blight, *Phytophthora infestans*, Potatoes, Spraying. The fungicides tested were Cuman, Copex-50, Flit-406, Dithane M-45, Dithane Z-78, Blitan, Duter and Hexathane.

11991-69

## THE POSSIBILITY OF REINFECTION BY ASCOSPORES OF THE FIRST GENERATION OF PSEUDOPEZIZA TRACHEIPHILA IN LATE SUMMER.

J Lehoczky

*Horticultural Abs* 38(3):689

Sep 1968 241 IM74

Ascospores, Fungus diseases (plants), Grapes, Infectious diseases, *Pseudopeziza tracheiphila*.

11992-69

## PHLOEM AND BUD TRANSMISSION OF CHROME MOSAIC AND FANLEAF VIRUSES OF GRAPEVINE.

J Lehoczky G Sarospataki

*Horticultural Abs* 38(3):682

Sep 1968 241 IM74

Fanleaf (grapes), Grapes, Mosaic, Phloem, Virus diseases (plants).

11993-69

## MICRONUTRIENTS ESSENTIAL FOR TREE HEALTH AND HIGH YIELD OF QUALITY CITRUS.

C D Leonard

*Citrus Vet Mag* 32(5):14

Jan 1969 80 C498

Citrus, Micronutrients, Plant nutrition, Plant nutritional deficiencies, Trees. Six micronutrients; iron, zinc, manganese, copper, molybdenum and boron are discussed.

11994-69

## THE SOFT ROT FUNGI AND THEIR MODE OF ENTRY INTO WOOD AND WOODY CELL WALLS.

J F Levy

*Holz Organ* 1:55-60

1966 QK604.H6

Cell wall, Fungus diseases (plants), Hardwoods, Soft rot, Wood, Wood destroying fungi. German and French summaries.

11995-69

## MICROMORPHOLOGICAL CHANGES OF WOOD THROUGH THE DECOMPOSITION CAUSED BY FUNGI. (GE)

W Liese

*Holz Organ* 1:13-26 REF

1966 QK604.H6

Brown rot, Decomposition, Enzymes, Fungus diseases (plants), Morphology, Sap stain, Soft rot, White rot, Wood, Wood destroying fungi, Wood staining fungi. English and French summaries.

11996-69

## METHOD OF DESTROYING FUNGI WITH NITROPHENYL SULFONYLETHYLENE. PATENT 3,436,464.

G Losco

*Us Patent Office Offic Gaz* 861(1):250

01 Apr 1969 156.65 OF2

Chemical control (plant diseases), Ethylene, Fungicides, Fungus diseases (plants), Methodology, Sulfonic acids.

11997-69

## GNOMONIA ERYTHROSTOMA (PERS.) AUERSW.- A PARASITE OF THE APRICOT TREE (PRUNUS ARMENIACA L.). (SE)

M Martinovic

*Zastita Bilja* 18(93/95):199-205

1967 464.8 Z1

Apricots, Fungus diseases (plants), *Gnomonia erythrostoma*, Symptomatology, *Trichothecium roseum*. French summary.

11998-69

## UROMYCES MINOR SCHROET. VAR. AR-MORICANA NOV. VAR. ON TRIFOLIUM PATENS SCHREB. (FR)

M Massicot

*Rev Mycol* 33(1):38-42 MAP

01 Jul 1968 450 AN74

Clover, Fungus diseases (plants), Mycology, Plant geography, Rust, *Uromyces minor*. Latin summary.

11999-69

## INHERITANCE IN THE OAT STRAIN C.I. 3034 OF ADULT PLANT RESISTANCE TO RACE C 10 OF STEM RUST.

R I H McKenzie J W Martens

*Crop Sci* 8(5):625-627

Sep 1968 64.8 C883

Chlorophylls, Genes, Oats, Plant disease resistance, Plant diseases, Plant genetics, Stem rust.

12000-69  
**CUCUMBER DISEASES.**  
 N E McGlohon  
*Ga Univ Coll Agr Ext Serv Circ* (69):3P  
 Dec 1968 275.29 G29C  
 Angular leafspot, Anthracnose, Chemical control (plant diseases), Cucumbers, Cultural control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Gummy stem blight, Plant disease resistance, Powdery mildew, Scab. Several fungicides are listed and directions for their use are given.

12001-69  
**BUNCH GRAPE DISEASES.**  
 N E McGlohon  
*Ga Univ Coll Agr Ext Serv Circ* (43):3P  
 Dec 1968 275.29 G29C  
 Anthracnose, Black rot, Bordeaux mixture, Chemical control (plant diseases), Cultural control (plant diseases), Downy mildew, Fungicides, Fungus diseases (plants), Grapes, Powdery mildew.

12002-69  
**RESISTANCE TO PHYTOPHTHORA CACTORUM AMONG OPEN-POLLINATED SEEDLINGS OF APPLE VARIETIES AND SPECIES.**  
 D L McIntosh  
*Amer Soc Horticult Sci Proc* 93:71-76  
 Dec 1968 81 SO12  
 Apples, Crop varieties, Crown rot, Fungus diseases (plants), Phytophthora cactorum, Plant disease resistance, Pollination, Seedlings.

12003-69  
**DECAY OF WOOD AND WOOD FIBERBOARDS BY COMMON FUNGI IMPERFECTI.**  
 W Merrill  
*Holz Organ* 1:69-76 REF  
 1966 QK604.H6  
 Aspergillus, Fiberboard, Fungus diseases (plants), Penicillium, Wood, Wood decay, Wood destroying fungi. German and French summaries.

12004-69  
**TECHNIQUE OF ARTIFICIAL INNOCULATION OF SEED-CORN WITH FUNGI FUSARIUM. (FR)**  
 P M Molot J Simone  
*Rev Zool Agr Appl* 66(1-3, 1ST TRIMESTER):29-32  
 1967 410.9 SO12  
 Corn, Fungus diseases (plants), Fusarium, Methodology, Seedlings.

12005-69  
**BARLEY DISEASES AND THEIR CONTROL.**  
 J G Moseman  
*U S D A Agr Handb* (338):45-60  
 Mar 1968 1 AG84AH  
 Bacterial diseases (plants), Barley, Chemical control (plant diseases), Cultural control (plant diseases), Fungicides, Fungus diseases (plants), Plant disease resistance, Seed treatment, Virus diseases (plants). Many plant diseases are listed with their most effective control measures.

12006-69  
**THE INFLUENCE OF WHITE ROT FUNGI ON THE ULTRASTRUCTURE OF OUTER CELL WALL LAYERS. (GE)**  
 V Necessany  
*Holz Organ* 1:27-39 REF  
 1966 QK604.H6  
 Cell wall, Enzymes, Fungus diseases (plants), Lignin, White rot, Wood, Wood destroying fungi. English and French summaries.

12007-69  
**STUDIES ON RESISTANCE TO THE BLACK SPOT FUNGAL DISEASE OF JAPANESE PEAR (ALTERNARIA KIKUCHIANA TANAKA). VII. THE ISOLATION OF A HOST-SPECIFIC TOXIN FROM THE NATURAL LESIONS, AND SOME CHEMICALS WHICH REDUCE ITS TOXICITY.**  
 M Ohkawa H Torikata  
*Horticultural Abs* 38(4):686  
 Sep 1968 241 IM74  
 Alternaria kikuchiana, Biochemistry, Black spot, Fungus diseases (plants), Plant disease resistance, Toxins.

12008-69  
**THE BAD NEWS FOR MUSHROOM GROWERS.**  
 R Paterson  
*J Agr (melbourne)* 66(9):312-313  
 Sep 1968 23 V66J  
 Cultural control (plant diseases), Dieback, Fungi, Mushrooms, Virus diseases (plants).

12009-69  
**FORESTRY QUARANTINE AND ITS BIOLOGICAL BACKGROUND.**  
 D H Phillips D Bevan  
*Great Brit Forest Comm Forest Rec* (63):1-12 REF  
 1967 99.9 G795FO  
 Disease transmission, Forestry, Plant quarantine, Tree diseases.  
 The need for controlling the spread of pests by man through quarantine and sanitation procedures and the need for an exchange of information on forest pests and diseases in order to assess potential damage in new areas is discussed.

12010-69  
**STUDIES IN FUNGITOXICITY. VI. FUNGICIDAL ACTIVITY OF CERTAIN 2-(SUBSTITUTED THIO)-5-(2,4-DINITROPHENYLTHIO)-1,3,4-THIADIAZOLES AND RELATED COMPOUNDS.**  
 M Pianka  
*J Sci Food Agr* 19(9):502-507 REF  
 Sep 1968 382 SO12  
 Biochemistry, Botrytis cinerea, Cercospora melonis, Chemical control (plant diseases), Fungicides, Fusarium bulbigenum, Tables (data), Thiadiazole compounds, Toxicology, Venturia inaequalis.

12011-69  
**THE DISRUPTION OF LYSOSOME-LIKE PARTICLES OF SOLANUM TUBEROSUM CELLS DURING INFECTION BY PHYTOPHTHORA ERYTHROSEPTICA PETHYBR.**  
 D Pitt C Coombes  
*J Gen Microbiol* 53(PT 2):197-204 REF  
 Sep 1968 448.3 J823  
 Esterases, Fungus diseases (plants), Histochemistry, Lysosomes, Phosphatases, Phytophthora erythroseptica, Plant biochemistry, Potatoes, Rot, Tissue culture.

12012-69  
**NOW IS THE TIME TO CONTROL BROWN ROT.**  
 R L Rackham  
*Calif Citrogr* 54(1):  
 Nov 1968 80 C125  
 Brown rot, Chemical control (plant diseases), Citrus, Fruit, Fungicides, Fungus diseases (plants), Molds, Odors, Pesticides, Phytophthora, Root rot, Spraying.

12013-69  
**BRUNCHORTIA DIE-BACK OF CORSICAN PINE.**  
 D J Read  
*Great Brit Forest Comm Forest Rec* (61):1-6  
 1967 99.9 G795FO  
 Cultural control (plant diseases), Dieback, Fungus diseases (plants), Pinus nigra.  
 The history of the fungus disease, Brunchortia die-back, in European forests is discussed. Also included are the symptomatology, disease incidence, and cultural means for control.

12014-69  
**POWDERY MILDEW OF STRAWBERRIES.**  
 Z Rebandel  
*Horticultural Abs* 38(3):688  
 Sep 1968 241 IM74  
 Fungus diseases (plants), Powdery mildew, Sphaerotheca macularis, Strawberries.

12015-69  
**CYTOSPORA LEUCOSTOMA SPORE GERMINATION. I: ENVIRONMENTAL AND CARBOHYDRATE REQUIREMENTS. II: CARBOHYDRATE AVAILABILITY IN PEACH TREE BARK.**  
 K G Rohrbach  
*Horticultural Abs* 38(3):686  
 Sep 1968 241 IM74  
 Carbohydrates, Environment, Fungus diseases (plants), Peaches, Seed germination, Valsa leucostoma.

12016-69  
**SEASONAL CHANGES IN SUGAR ALCOHOLS AND SUGARS IN PEACH BARK: A POSSIBLE RELATIONSHIP TO CYTOSPORA CANKER SUSCEPTIBILITY.**  
 K G Rohrbach N S Luepschen  
*Amer Soc Horticult Sci Proc* 93:135-140 REF  
 Dec 1968 81 SO12  
 Alcohols, Bark, Canker, Chromatography, Cytopspora, Fructose, Fungus diseases (plants), Glucose, Peaches, Plant disease resistance, Sucrose, Temperature.

12017-69  
**PREVENTING TRANSMISSION OF EXOCORTIS VIRUS.**  
 C N Roistacher R L Blue E C Calavan  
*Calif Citrogr* 54(3):91,100,102  
 Jan 1969 80 C125  
 Antiseptics, Chemical control (plant diseases), Citrus, Disease transmission, Exocortis, Heat treatment, Sodium hypochlorite, Virus diseases (plants).

12018-69  
**SOME REMARKS ON THE CORKY TRIANGLE ABNORMALITY OF THE PEACH TREE. (FR)**  
 R Saurier  
*Phytoma* 20(200, JUL-AUG):21-24  
 1968 464.8 P563  
 Crop varieties, Insect pests, Orchards, Peaches, Plant abnormalities, Plant disease transmission, Plant grafting, Seedlings, Seeds, Thrips, Thysanoptera, Virus diseases (plants).

12019-69  
**VIROGEOGRAPHICAL STUDIES ON THE CLOVER PHYLLODY VIRUS AND ITS VECTORS. (GE)**  
 A Savulescu P G Ploaie  
*Phytopathol Z* 58(4):315-322 REF  
 Apr 1967 464.8 P562  
 Aster yellows, Barley, Convolvulus arvensis, Euscelis plebejus, Geography, Insect vectors, Phylloidy, Red clover, Research, Virology, Virus diseases (plants), Wheat. English summary.

12020-69  
**ELECTRON MICROSCOPICAL OBSERVATIONS ON HYPHAE OF WOOD FUNGI. (GE)**  
 R Schmid W Liese  
*Holz Organ* 1:251-261 REF  
 1966 QK604.H6  
 Coniophora, Electron microscopes, Fomes pini, Fungus diseases (plants), Hyphae, Plant morphology, Wood, Wood destroying fungi. English and French summaries.

12021-69  
**REINFECTION POSSIBILITIES FOR ANGULAR LEAF SPOT PATHOGEN IN CALIFORNIA COTTON.**  
 W C Schnathorst  
*Calif Agr* 23(2):17-18  
 Feb 1969 100 C12CA9  
 Angular leafspot, California, Cotton, Xanthomonas malvacearum.

12022-69  
**STUDIES ON THE BACTERIOSTATIC AND BACTERICIDAL ACTION OF STREPTOCYCLINE ON XANTHOMONAS ORYZAE.**  
 K S Shetty G Rangaswami  
*Mysore J Agr Sci* 2(1):1-5  
 1968 S19.M9

Antibiotics, Bacterial blight, Bactericides, Bacteriostats, Inhibitors, Plant diseases, Rice, Streptomycin, Xanthomonas oryzae.

12023-69

**A FRUIT ROT OF STRAWBERRIES CAUSED BY RHIZOCTONIA SOLANI.**

P J Shipton

*Plant Pathol* 17(3):144

Sep 1968 464.8 P692

Culture media, Fungus diseases (plants), Rhizoctonia solani, Rot, Soil-borne plant diseases, Strawberries.

12024-69

**TRANSMISSION OF BARLEY YELLOW DWARF VIRUS (BYDV) IN CEREALS BY TWO APHID SPECIES, RHOPALOSIPHUM PADI (L.) AND MACROSIPHUM MISCANTHI (TAK.).**

H C Smith R W Hart L C Hurndell M Smith

*New Zeal J Agr Res* 11(2):500-505

May 1968 23 N4892

Barley, Disease transmission, Grain, Insect vectors, Macrosiphum, Rhopalosiphum padi, Virus diseases (plants), Yellow dwarf.

12025-69

**RELATIONSHIP BETWEEN CITRUS LEAF-MINER (PHYLLOCNISTIS CITRELLA STAINTON) INJURY AND CITRUS CANKER (X-ANTHOMONAS CITRI (HASSE) DOWSON) INCIDENCE ON CITRUS LEAVES.**

G S Sohi M S Sandhu

*Prog Farming* 5(1):66-69 REF

Mar 1968 S19.P8

Alternaria, Bacterial diseases (plants), Canker, Citrus, Fungus diseases (plants), Insect pests, Leaves, Lemons, Paecilomyces, Phylloconistis citrella, Plant injuries, Xanthomonas citri.

12026-69

**END SPOTTING AND CORKING OF AVOCADO FRUITS.**

W B Storey B O Bergh

*Calif Avocado Soc Yearbook* 52:97-101

1968 81 C128

Avocados, Corky ringspot, Crop varieties, Environment, Plant genetics, Plant injuries, Plant physiological diseases.

12027-69

**THE ETIOLOGY OF THE STRAWBERRY DISEASE CAUSED BY APHELENCHOIDES FRAGARIAE AND CORYNEBACTERIUM FASCIANS.**

H Strumpel

*Horticultural Abs* 38(3):680

Sep 1968 241 IM74

Aphelenchoides fragariae, Bacterial diseases (plants), Corynebacterium fascians, Strawberries.

12028-69

**SNOW-MOLD-TOLERANT WINTER WHEATS.**

D W Sunderman H C McKay

*Crop Sci* 8(5):630-631

Sep 1968 64.8 C883

Biochemistry, Chemical control (plant diseases), Fungicides, Fusarium nivale, Plant disease resistance, Plant diseases, Typhula idahoensis, Wheat.

12029-69

**PENALTY FOR SPOT.**

C A R Symes

*Rhodesian Farmer* 39(25):11

01 Nov 1968 24 R347

Agricultural economics, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Leaf spot, Plant protection, Spraying, Tobacco. Many sprays are suggested.

12030-69

**THE RELATIONSHIP BETWEEN BEAN YELLOW MOSAIC VIRUS AND PEA MOSAIC VIRUS.**

R H Taylor P R Smith

*Australian J Biol Sci* 21(3):429-437 REF

Jun 1968 442.8 AU72

Beans, Electron microscopy, Host range, Mosaic (bean yellow), Mosaic (peas), Peas, Serological tests, Virus diseases (plants).

12031-69

**SOWBANE MOSAIC VIRUS INFECTING CHENOPODIUM TRIGONON IN QUEENSLAND.**

D S Teakle

*Australian J Biol Sci* 21(4):649-653

Aug 1968 442.8 AU72

Australia, Chenopodium, Electron microscopy, Greenhouses, Mosaic, Serological tests, Virus diseases (plants).

12032-69

**INFORMATION ON A SAP TRANSMISSIBLE, SEED-, FUNGUS- AND INSECT-BORNE NEW VIRUS OF GARDEN PEA. (GE)**

V G Thottappilly H Schmutterer

*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz* 75(1):1-8 REF

Jan 1968 464.8 Z3

Biological transport, Chlorosis, Insect vectors, Leaf roll, Leaves, Peas, Pisum sativum, Sap, Virus diseases (plants). English summary

12033-69

**LIGHT INTENSITY AND DURATION IN THE DEVELOPMENT OF LETTUCE TIPBURN.**

T W Tibbitts R R Rao

*Amer Soc Horticult Sci Proc* 93:454-461

Dec 1968 81 SO12

Lettuce, Morphology, Photoperiodism, Photosynthesis, Plant diseases, Plant injuries, Tipburn.

12034-69

**STUDIES ON THE CONTROL OF ENDOOTHIA CANKER OF JAPANESE CHESTNUT (CASTANEA CRENATA SIEB. ET ZUCC.). INFLUENCE OF CULTIVATION ON THE DAMAGE CAUSED BY ENDOOTHIA CANKER. I. INFLUENCE OF SOIL MOISTURE AND PLANTING DISTANCE.**

K Uchida

*Horticultural Abs* 38(3):687

Sep 1968 241 IM74

Canker, Castanea crenata, Fungus diseases (plants), Planting, Soil moisture.

12035-69

**THE SIZE EFFECT OF SAMPLE BLOCKS ON DECAY RATE OF BEECH WOOD (FAGUS CRENATA) IN LABORATORY TESTS.**

A Ueyama

*Hort Organ* 1:301-307

1966 QK604.H6

Fagus crenata, Fungus diseases (plants), Laboratories, Research, Wood decay, Wood destroying fungi. German and French summaries.

12036-69

**STUDIES ON THE SUCCESSION OF HIGHER FUNGI ON FELLED BEECH LOGS (FAGUS CRENATA) IN JAPAN.**

A Ueyama

*Hort Organ* 1:325-332

1966 QK604.H6

Fagus crenata, Fungus diseases (plants), Logs, Soil fungi, Wood destroying fungi, Wood staining fungi. German and French summaries.

12037-69

**ISOLATION OF CERCOSPORIN FROM CERCOSPOA PERSONATA.**

K Venkataramani

*Phytopathol Z* 58(4):379-382 REF

Apr 1967 464.8 P562

Cercospora personata, Fungus diseases (plants), Leaf spot, Peanuts. German summary

12038-69

**EFFECT OF TANNIC ACID AND ELLAGIC ACID ON THE INFECTIVITY OF POTATO VIRUS X IN TISSUE CULTURE.**

V S Verma S P Raychaudhuri

*Naturwissenschaften* 55(11):546

Nov 1968 474 N213

Pathogenicity, Potatoes, Tannic acids, Tissue culture, Virus diseases (plants), Virus X.

12039-69

**ON THE DECOMPOSITION OF PARTICLE BOARDS BY SOFT ROT FUNGI. (GE)**

H Willeitner

*Holz Organ* 1:77-88 REF

1966 QK604.H6

Ceratocystis, Chaetomium globosum, Decomposition, Fungus diseases (plants), Paecilomyces, Soft rot, Wood, Wood destroying fungi. English and French summaries.

12040-69

**EVALUATION OF TERRACLOR AND TERRACLOR SUPER-X FOR THE CONTROL OF RHIZOCTONIA ON POTATO IN BRITISH COLUMBIA.**

N S Wright

*Can Plant Dis Surv* 48(3):77-81

Sep 1968 464.9 C16S

Chemical control (plant diseases), Pentachloronitrobenzene, Potatoes, Rhizoctonia solani.

12041-69

**PATHOGENS AS ORGANISMS OUT OF PLACE.**

C E Yarwood

*Phytopathol Z* 58(4):305-314 REF

Apr 1967 464.8 P562

Bacterial diseases (plants), Fungus diseases (plants), Parasitism, Plant physiology, Temperature, Uromyces phaseoli. German summary

12042-69

**CONTROL OF FAIRY RING DISEASE OF THE CULTIVATED CRANBERRY.**

B M Zuckerman K J Rocheft G B Rounsville

*Horticultural Abs* 38(3):687

Sep 1968 241 IM74

Cranberries, Fungus diseases (plants), Marasmius oreades, Pest control.

## ARTHROPODS

12043-69

**AERIAL CONTROL OF HAIRY CATERPILLAR (EUPROCTIS SIGNATA BLAN) INFESTING APPLES IN WEST PAKISTAN.**

F U Ahmad S A Siddiqui

*Horticultural Abs* 38(3):692

Sep 1968 241 IM74

Aerial pest control, Apples, Euproctis, Insect pests.

12044-69

**WATER-SOLUBLE FACTORS IN MELILOTUS LEAVES WHICH INFLUENCE FEEDING BY THE SWEETCLOVER WEEVIL.**

W R Akeson F A Haskins H J Gorz G R Manglitz

*Crop Sci* 8(5):574-576

Sep 1968 64.8 C883

Absorption, Biological assay, Chromatography, Feeding, Leaves, Melilotus infesta, Sitona cylindricollis, Stimulants, Water, Yellow sweetclover.

12045-69

**THE TOXICITY OF ORGANOPHOSPHORUS INSECTICIDES TO MINER MOTHS.**

G N Aleksidze

*Horticultural Abs* 38(3):692

Sep 1968 241 IM74

Insect control, Insecticides, Lithocolletis pyrifoliana, Organophosphorus compounds, Toxicology.

12046-69

**OBSERVATIONS ON HATCHING AND PENETRATION OF THE SMALL LARVAE OF THE FALSE PINK BALLWORM SACADODES PYRALIS DYAR. INTO THE BALLS OF COTTON. (SP)**

R V Angel O Franco M

*Agr Trop* 23(4):211-215

Apr 1967 26 AG8

Cotton, Hatching, Insect behavior, Life cycle, Nocuidae, Sacadodes pyralis. English abstract

12047-69  
**CURRENT AND GOOSEBERRY APHIDS.**  
 Anonymous  
*Horticultural Abs* 38(3):691  
 Sep 1968 241 IM74  
 Aphididae, Currants, Gooseberries, Insect control, Insect pests.

12048-69  
**THE SCALES OF OLIVE TREES OCCURRING IN GREECE AND THEIR ENTOMOPHAGOUS INSECTS.**  
 L C Argyriou  
*Inst Phyto Pathol Benaki Ann (N s)* 8(2):66-73  
 1967 464.9 AT4  
 Coccoidea, Crop losses, Insect identification, Insect pests, Olives, Parasitic insects, Predaceous insects. Article mentions 11 scales, 10 of their parasites and 11 of their predators.

12049-69  
**APPLE MOTH (RECURVARIA LEUCATELLA), A LITTLE KNOWN PEST OF FRUIT TREES.**  
 M Baggioolini  
*Horticultural Abs* 38(3):691  
 Sep 1968 241 IM74  
 Apples, Fruit, Insect pests, Recurvaria leucatella, Trees.

12050-69  
**RESEARCH ON THE MODIFICATIONS OF THE HUSKS OF BROMUS INERMIS, L. (GRAMINEAE) PROVOKED BY THE ACERIA TENUIS (NAL.) (ACARINA ERIOPHYIDAE). (FR)**  
 E Bembassat-Ivanova P Natchev  
*Marcellia* 34(3):183-190  
 Dec 1967 421 M33  
 Aceria, Bromus inermis, Insect pests, Parasitism, Plant anatomy, Research.

12051-69  
**BIOCHEMICAL COMPOSITION OF HOST PLANTS OF BRASSICA OLERACEA VAR. CAPITATA L. AS RELATED TO RESISTANCE TO TRICHOPLUSIA NI HUBNER AND PIERIS RAPAE LINNE.**  
 P S Benepal C V Hall  
*Amer Soc Horticult Sci Proc* 91:325-330 REF  
 1967 81 SO12  
 Amino acids, Cabbage, Chromatography, Leaves, Ninhydrin reaction, Nitrogen, Pieris rapae, Pipecolic acid, Plant biochemistry, Plant pest resistance, Quantitative analysis, Trichoplusia ni, Tyrosine.

12052-69  
**GALLS AND LARVAE OF THE EUROPEAN SPECIES OF GENERA PHYLLOCOLPA AND PONTANIA (HYMENOPTERA, TENTHREDINIDAE).**  
 K Benes  
*Acta Ent Bohemoslov* 65(2):112-137 REF  
 1968 420 C33  
 Gall-making insects, Growth factors, Insect morphology, Insect physiology, Larvae, Oviposition, Phyllocolpa, Plant galls, Plant physiology, Pontania, Tenthredinidae. Czech summary.  
 A list of host plants and of species of both genera is included.

12053-69  
**CONTROL OF VINE BUNCH MITE THIS SEASON.**  
 P Boxwell  
*Horticultural Abs* 38(3):691  
 Sep 1968 241 IM74  
 Grapes, Insect control, Insect pests, Tenuipalpus.

12054-69  
**SPIDER MITES ON SOYBEANS: INJURY AND CONTROL.**  
 E C Carlson  
*Calif Agr* 23(5):16-18  
 May 1969 100 C12CAG  
 Acaricides, Soybeans, Tetranychidae, Tetranychus pacificus, Tetranychus urticae.

12055-69  
**DOUGLAS-FIR BEETLE BROOD DENSITIES AND INFESTATION TRENDS ON A NEW MEXICO STUDY AREA.**  
 J F Chansler  
*Pacific Southwest Forest Range Exp Sta Res Note PSW-* (125):4P  
 1968 A99.9 F7632US  
 Dendroctonus pseudotsugae, Forest insects, Infestation, Insect behavior, Insect outbreaks, Insect pests, Methodology, Plant injuries, Predaceous insects, Pseudotsuga menziesii, Pyraustidae, Sampling (statistics).

12056-69  
**A NEW PIMENTO FRUIT DISORDER ASSOCIATED WITH THE FEEDING OF THE LEAF-FOOTED BUG, LEPTOGLOSSUS PHYLLOPUS L.**  
 H L Cochran  
*Amer Soc Horticult Sci Proc* 93:470-475  
 Dec 1968 81 SO12  
 Color, Crop losses, Feeding, Insect pests, Leptoglossus phyllopus, Pimientos, Plant abnormalities, Plant injuries.

12057-69  
**EXPERIMENTS WITH LYCTUS. (GE)**  
 S Cymorek  
*Holz Organ* 1:391-413 REF  
 1966 QK604.H6  
 Ecology, Insect pests, Lyctus, Lyctus africanus, Lyctus brunneus, Research, Wood. English and French summaries.

12058-69  
**ECOLOGY AND INTEGRATED CONTROL OF SPIDER MITES IN SAN JOAQUIN VINEYARDS.**  
 D L Flaherty C D Lynn F L Jenson D A Luvisi  
*Calif Agr* 23(4):11  
 Apr 1969 100 C12CAG  
 Acaricides, Grape vineyards, Integrated control (insects), Tetranychidae.

12059-69  
**TRANSMISSION OF STRAWBERRY CRINKLE VIRUS BY THE DARK STRAWBERRY APHID CHAETOSIPHON JACOBI.**  
 N W Frazier  
*Horticultural Abs* 38(3):682  
 Sep 1968 241 IM74  
 Chaetosiphon, Crinkle, Insect vectors, Strawberries, Virus diseases (plants).

12060-69  
**CYCLAMEN MITE (STENEOTARSONEMUS PALLIDUS BANKS) ON CHRYSANTHEMUMS.**  
 N French J D R Vernon H C Woodville  
*Plant Pathol* 17(3):143  
 Sep 1968 464.8 P692  
 Chrysanthemum, Greenhouses, Insect eggs, Insect pests, Steneotarsonemus pallidus.

12061-69  
**A CONTRIBUTION TO THE BIOLOGY OF DYSAPHIS APHIDS ON APPLE AND THEIR CONTROL.**  
 S Grigorov  
*Horticultural Abs* 38(3):691  
 Sep 1968 241 IM74  
 Apples, Biology, Dysaphis, Insect control, Insect pests.

12062-69  
**PARASITISM OF CHRYSIS SHANGHAIENSIS SMITH ON CNIDOCAMPA FLAVESCENS WALKER IN KAGAWA, JAPAN (HYMENOPTERA: CHRYSIDIDAE).**  
 K Iwata  
*Shikoku Entomol Soc Trans* 7(4):97-100  
 May 1963 420 SH6  
 Chrysidae, Chrysis, Cnidocampa flavescens, Crop yields, Insect biology, Parasitism, Plant injuries.

12063-69  
**VECTORS OF VIRUS DISEASES OF SUGAR BEET AND THEIR ECONOMICAL IMPORTANCE IN THE BYDGOSZCZ VOIVODESHIP IN THE YEARS 1957-1965. (POL)**  
 J Janas  
*Pol Pismo Entomol* 37(3):517-580 MAP REF  
 30 Oct 1967 421 P76  
 Aphididae, Aphis fabae, Insect populations, Insect vectors, Piesma quadratum, Sugar beets, Virus diseases (plants). English summary.

12064-69  
**THE INHIBITORY ACTION OF 2,4,6-TRICHLOROPHOENOXY ETHANOL ON FEMALES OF RED SPIDER MITE (METATETRANYCHUS ULMI KOCH).**  
 G Jenser  
*Horticultural Abs* 38(3):691  
 Sep 1968 241 IM74  
 Acaricides, Insect pests, Panonychus ulmi, Trichlorophenoxyethanol, 2,4,6-.

12065-69  
**POPULATION DENSITIES AND ECONOMIC INJURY LEVELS OF GRAPE LEAFHOPPER.**  
 F L Jenson D L Flaherty L Chiarappa  
*Calif Agr* 23(4):9-10  
 Apr 1969 100 C12CAG  
 Agricultural economics, Crop yields, Erythroneura, Grape vineyards, Population.

12066-69  
**UNUSUAL DAMAGE BY CLOVER SEED WEEVILS.**  
 J M Jones  
*Plant Pathol* 17(3):142-144  
 Sep 1968 464.8 P692  
 Apion aestivum, Beans, Clover, Insect cages, Insect cultures.

12067-69  
**CHERRY FLOWER MOTH.**  
 P Journet  
*Horticultural Abs* 38(3):692  
 Sep 1968 241 IM74  
 Agryrestia ephippella, Cherries, Flowers, Insect pests.

12068-69  
**THE INHERITANCE OF PATHOGENICITY IN RACES 111 AND 29 OF WHEAT STEM RUST.**  
 K N Kao D R Knott  
*Can J Genet Cytol* 11(2):266-274 REF  
 Jun 1969 443.8 C16  
 Fungus diseases (plants), Inheritance, Plant disease resistance, Plant diseases, Plant genetics, Stem rust, Virulence, Wheat.

12069-69  
**CONTROL OF WHEAT BULB FLY BY LARGE AREA CROPPING RESTRICTIONS.**  
 T J Legowski F E Maskell C M Williams  
*Plant Pathol* 17(3):129-133  
 Sep 1968 464.8 P692  
 Grasses, Hylemya coarctata, Insect dissemination, Insect ecology, Insect eggs, Plant pest control, Rye, Wheat.

12070-69  
**EXPERIMENTS TO CONTROL WHEAT BULB FLY WITH A FLAME THROWER.**  
 T J Legowski  
*Plant Pathol* 17(3):133-134  
 Sep 1968 464.8 P692  
 Hylemya coarctata, Insect eggs, Mortality, Plant pest control, Weed burners.

12071-69  
**LOSSES OF ACTIVE INSECTICIDAL ELEMENTS OF THE DRIED ROOTS OF DERRIS ELLIPTICA BENTH. UNDER THE INFLUENCE OF PREDATORS AND ESPECIALLY OF TROGOXYLON AEQUALE WOLL. (FR)**  
*Bull Recherch Agron Gembloux* (N s)3(1):15-25  
 1968 S5.B8

## CROP PROTECTION

12072-69

*Derris elliptica*, Insect nutrition, Insect pests, Insecticides, Plant proteins, Roots, Rotenone, Starches, Sucrose, *Troxoxylon aequale*. English and german summaries.

12072-69

PARASITIZATION OF *NABIS ALTERNATUS* BY *LEUCOSTOMA SIMPLEX* IN EASTERN SOUTH DAKOTA.

W L Morrill

*Entomol Soc Amer Ann* 62(1):240

15 Jan 1969 420 EN82

Grain, Insect ecology, Insect pests, *Leucostoma simplex*, Nabidae, *Nabis alternatus*, Parasitic insects, Population, Predaceous insects, Tachinidae.

12073-69

THE CurrANT BORER (SYNANTHEDON TIPULIFORMIS).

W Nijveldt

*Horticultural Abs* 38(3):692-693

Sep 1968 241 IM74

Currants, Insect control, Insect pests, *Synanthedon tipuliformis*.

12074-69

REPORT OF THE SYMPOSIUM ON VIRUS DISEASES OF RICE.

S H Ou K C Ling

*Int Rice Comm News Lett* 16(2):14-18

Jun 1967 59.9 IN83N

Chemical control (insects), Insect vectors, Insecticides, Plant disease transmission, Reports, Rice, Symposia, Virus diseases (plants).

12075-69

APPLE APHIDS AND THE ETIOLOGY OF FIREBLIGHT DISEASE.

S B Plurad

*Horticultural Abs* 38(3):683

Sep 1968 241 IM74

Aphididae, Apples, Bacterial diseases (plants), Fire blight.

12076-69

CONTROL OF FOUR SPECIES OF APHIDS ON DECIDUOUS FRUIT AND NUT TREES WITH CARBOFURAN.

I A Rammer E A Kurtz P E Primer

*J Econ Entomol* 62(2):498-500

15 Apr 1969 421 J822

Aphididae, *Aphis pomi*, Apples, Carbofuran, Chemical control (insects), *Chromaphis juglandicola*, Dosage, *Dysaphis plantaginea*, *Hyalopterus pruni*, Plums, Spraying, Walnuts.

12077-69

A RECORD OF NATURAL ENEMIES OF *FER-  
RISIA VIRGATA* CKLL. IN MADHYA PRADESH (INDIA).

R R Rawat N Modi

*Mysore J Agr Sci* 2(1):51-53

1968 S19.M9

*Ferrisia virgata*, Insect outbreaks, Insect pests, Parasitism, Predaceous insects, Pseudococcidae. Additional less important predators and parasites are listed

12078-69

CHEMICAL CONTROL OF PINK BOLLWORM IN IMPERIAL VALLEY.

R E Rice H T Reynold R M Hannibal

*Calif Agr* 23(5):19

May 1969 100 C12CAG

Azinphosmethyl, Carbaryl, Chemical control (insects), Chlоро-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Cotton, Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate, 3-, Insecticides, *Pectinophora gossypiella*. Other less effective insecticides were also tested.

12079-69

BIOLOGICAL STUDIES OF ARGYRESTHIA FRANCISCELLA AND A. CUPPRESSELLA ON ORNAMENTAL CUPRESSACEAE.

S S Rosenthal G W Frankie C S Koehler

*Entomol Soc Amer Ann* 62(1):109-112

15 Jan 1969 420 EN82

## BIBLIOGRAPHY

*Argyresthia cupressella*, *Argyresthia francisella*, Cupressaceae, Foliage, Hymenoptera, Insect biology, Insect eggs, Insect pests, Larvae, Ornamental plants, Parasitic insects, Plant injuries, Yponomeutidae, Zoogeography.

12080-69

INFLUENCE OF THE QUANTITY OF INSECTICIDE PER SEED AND PER HECTARE ON SEED TREATMENTS FOR CEREAL LEAF BEETLE LARVAE CONTROL ON OATS.

R F Ruppel

*J Econ Entomol* 62(2):508-509

15 Apr 1969 421 J822

Carbofuran, Chemical control (insects), Dosage, Isopropoxyphenyl methylcarbamate, o-, Larvae, Oats, *Oulema melanopus*, Seed treatment, Systemic insecticides.

12081-69

COMPARISON TESTS OF INSECTICIDES IN THE CONTROL OF *SESAMIA NONAGRIODIDES* Lef., (LEPIDOPTERA: NOCTUIDAE) ON CORN. (FR00)

G Stavrakis T Karalazos J Mentzelos

*Inst Phyto Pathol Benaki Ann (N s)*8(2):60-65

1967 464.9 AT4

Chemical control (insects), Chlorinated hydrocarbons, Corn, DDT, Endosulfan, Endrin, Insect pests, Insecticides, Noctuidae, Phosphamidon, *Sesamia nonagrioides*, Testing.

12082-69

THE PHYLOPHAGOUS LARVAE OF THE FAMILY NOCTUIDAE (LEPIDOPTERA), COLLECTED ON CORN IN NORTHERN GREECE. (FR)

G Stavrakis T Karalazos

*Inst Phyto Pathol Benaki Ann (N s)*8(2):57-58

1967 464.9 AT4

Corn, Crop losses, Insect pests, Larvae, Leaves, *Leucania l-album*, *Leucania loreyi*, Noctuidae, *Pseudaletia unipuncta*, *Spodoptera exigua*.

12083-69

LYGUS BUG CONTROL IN COTTON THROUGH ALFALFA INTERPLANTING.

V M Stern A Mueller V Sevacherian M Way

*Calif Agr* 23(2):8-10

Feb 1969 100 C12CAG

Alfalfa, Cotton, Crop yields, Lygus bugs.

12084-69

A 'PHORACIDE' POWDER INSECTICIDE FOR USE IN MUSHROOM HOUSES.

B B Stoller

*MGA (Mushroom Growers Ass) Bull* 232:167-169

Apr 1969 80 M97

Dichlorvos, Diptera, Insecticides, Mushrooms, Organophosphorus compounds.

12085-69

THE RELATIONSHIP OF GLANDULAR HAIRS ON TOMATOES TO SPIDER MITE RESISTANCE.

A K Stoner J A Frank A G Gentile

*Amer Soc Horticult Sci Proc* 93:532-538

Dec 1968 81 SO12

Crop varieties, Glands (plants), Hair, Insect pests, Leaves, Oviposition, Plant pest resistance, Plant protective devices, *Tetranychus cinnabarinus*, Tomatoes.

12086-69

THE ECOLOGY OF COLD HARDINESS IN DIFFERENT POPULATIONS OF THE BLACK CURRANT GALL MITE, CECIDOPHYOPSIS RIBIS.

G Taksdal

*Horticultural Abs* 38(3):690

Sep 1968 241 IM74

Cecidophyopsis ribis, Currants, Ecology, Insect physiology, Insect populations, Temperature.

12087-69

PARASITES OF RHYACIONIA BUOLIANA AND THEIR OCCURRENCE AT DIFFERENT CROWN LEVELS OF RED PINE IN WISCONSIN.

T R Torgersen H C Coppel

*Entomol Soc Amer Ann* 62(1):163-169 REF

15 Jan 1969 420 EN82

Diptera, *Eurytoma pini*, *Exeristes comstockii*, Forest insects, *Habrocytus thyridopteridis*, Hymenoptera, *Hyssopus thymus*, Insect ecology, Parasitic insects, *Pinus resinosa*, *Rhyacionia buoliana*, Zoogeography.

12088-69

A RECORD OF PARLATORIA PITTOSPORI MASK. (HEMIPTERA: DIASPIDIDAE) ON APPLES. (ABSTRACT).

W J Webster

*Entomol Soc Queensland J* 7(1):85-86

Jun 1968 420 EN823

Apples, Diaspididae, Insect pests, Insect taxonomy, *Parlatoria pittospori*, Zoogeography.

12089-69

ORCHARD ILLUMINATION AS A COUNTER TO THE FRUIT PIERCING MOTH.

V B Whitehead D J Rust

*Horticultural Abs* 38(3):692

Sep 1968 241 IM74

Apricots, Insect control, Insect pests, Lighting, Orchards, Peaches.

## NEMATODES

12090-69

A NEW NEMATODE-DESTROYING HARPPOSIUM.

C Drechsler

*Amer J Bot* 55(10,NOV-DEC):1251-1253

1968 450 AM36

Agar, Chlamydospores, Corn, Culture media, Fungi diseases (plants), *Harposporium*, Parasites, Plant morphology, Plant nematodes.

12091-69

EFFECT OF TEMPERATURE AND HOST ON PARATYLENCHUS NEOAMBLYCEPHALUS AND EFFECT OF THE NEMATODE ON THE HOST.

J M Fisher

*Horticultural Abs* 38(3):689

Sep 1968 241 IM74

Apples, Nematodes, *Paratylenchus neoamblycephalus*, Temperature.

12092-69

BIOLOGICAL STUDIES OF THE BLUEBERRY ROOT-KNOT NEMATODE (MELOIDOGYNE CAROLINENSIS N. SP.).

J A Fox

*Horticultural Abs* 38(3):689

Sep 1968 241 IM74

Biology, Blueberries, *Meloidogyne carolinensis*, Nematodes.

12093-69

A COMPARISON OF GENETIC RESISTANCE AND FUMIGATION FOR ROOTKNOT NEMATODE CONTROL IN POLE BEANS.

R W Hartmann

*Amer Soc Horticult Sci Proc* 93:397-401 REF

Dec 1968 81 SO12

Beans, Chemical control (nematodes), Dichloropropene dichloropropene mixture, Fumigation, *Meloidogyne incognita*, Plant genetics, Plant nematode resistance, Plant nematodes.

12094-69

THE IMPORTANCE OF NEMATOLOGICAL PROBLEMS IN VIEW OF THE INDUSTRIALIZATION OF AGRICULTURE. (FR)

M Ritter

*Notiz Mal Piante (SER 3)*(3/4):3-18 REF

1967 464.8 N84

Agriculture, Biological control, Chemical control (nematodes), Industrialization, Nematode control, Nematode vectors, Nematology, Plant nematodes. English and Italian summaries.

*Heterodera rostochiensis*, *H. schachtii*, *Ditylenchus dipsaci*, *Aphelenchoides*, *H. avenae*, and *Meloidogyne* are mentioned.

## BIBLIOGRAPHY

## LIVESTOCK PROTECTION

12117-69

### WEEDS

12095-69

#### NEW CACTUS WEED DANGER IN NATAL.

Anonymous

*S Afr Sugar J* 52(11):969

Nov 1968 65.8 SO8

Cactaceae, Chemical control (weeds), Eradication, Herbicides, Phenoxy acid compounds, T, 2,4,5-.

12096-69

#### PHYTOPATHOLOGICAL NOTES (24). CUSCUTA (CUSCUTE, CUSCUTA, DODDER, SEIDENPFLANZE). (IT)

Anonymous

*Agr Ital (N s)23(1 JAN-FEB):50-54*

1968 16 AG8259

Arsenic compounds, Chemical control (weeds), Chlorinated hydrocarbons, Chloropropham, Crop varieties, Cultural control (weeds), Cuscuta, Herbicides, Plant taxonomy, Sodium arsenite, Weeds.

12097-69

#### THE USE OF HERBICIDES IN THE MASS PRODUCTION TECHNOLOGY OF THE SUGARBEET. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

J Friedler

11-17

1966 SB951.U8

Chemical control (weeds), Costs, Cycluron, Endothal, Evaluation, Herbicides, Ipc, Methyl-2-propynyl m-chlorocarbanilate, 1-, Pyrazon, Sugar beets. Czech and Russian summaries.

12098-69

#### STUDIES ON PREEMERGENCE SCREENING AND MODE OF SELECTIVITY OF EXPERIMENTAL HERBICIDE 1-(3,4-DICHLOROPHENYL)-3-METHYL-2-PYRROLIDINONE.

O P Gupta

*Madras Agr J* 55(11):481-486

Nov 1968 22 M262

Chemical control (weeds), Chickpeas, Cowpeas, Dichlorophenyl-3-methyl-2-pyrrolidinone, 1-(3,4-, Herbicides, Pigeonpeas, Soybeans, Wheat.

12099-69

#### SOYBEANS: WHAT TO DO AFTER PRE-EMERGENCE.

C W Jordan

*Miss Farmer* 17(5):12D

May 1969 6 M6992

Chemical control (weeds), Chloroxuron, Dichlorophenoxybutyric acid, 4-(2,4-, Herbicide application, Herbicides, Linuron, Organophosphorus compounds, Phenoxy acid compounds, Soybeans.

12100-69

#### THE POSSIBILITIES OF USING METHYLMER-CAPTOTRIAZINES FOR THE CHEMICAL CONTROL OF WEEDS IN CULTIVATED PLANTS IN AGRICULTURE AND HORTICULTURE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

W Kramer

129-139

1966 SB951.U8

Agriculture, Chemical control (weeds), Economic plants, Herbicides, Horticulture, Tables (data), Triazines. Czech and Russian summaries. tests of several herbicides against many weeds.

12101-69

#### HERBICIDES AND SPRINKLER IRRIGATION IN VEGETABLE CROPS.

A H Lange M Lavallaye H Agamalian B Fischer Collins H Kempen

*Calif Agr* 23(5):8-10

May 1969 100 C12CAG

Benefin, Bensulide, Crops, Dichlorophenyl-4-nitropophenyl ether, 2,4-, Dimethyl tetrachloroterephthalate, Diphenamid, Ethyl N,N-

dipropylthiocarbamate, Herbicides, Linuron, Methylsulfonyl)-2,6-dinitro-N,N-dipropylaniline, 4-(, Prometryne, Trifluralin.

12102-69

#### WEED CONTROL FOR VEGETABLE CROPS.

*Md Univ Ext Leafl* (42):2P

Jan 1968 275.29 M36EL

Chemical control (weeds), Dosage, Herbicides, Pesticide application, Vegetables. Many herbicides are suggested for use on vegetables.

12103-69

#### LAWN WEED CONTROL.

*Mich State Univ Ext Ext Bull* (653):4P

Mar 1969 275.29 M58B

Chemical control (weeds), Herbicide application, Herbicides, Lawns, Turf. Many weeds and their chemical controls are listed.

12104-69

#### CHEMICAL WEED CONTROL ON SUMMER-FALLOW.

E S Molberg J R Hay

*Canad J Soil Sci* 48(3):255-264

Oct 1968 56.8 C162

Biochemistry, Chemical control (weeds), Fallow, Herbicides, Tillage.

12105-69

#### EXPERIENCES WITH THE USE OF HERBICIDES IN CABBAGE CULTURES. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

V Novakova

167-173

1966 SB951.U8

Cabbage, Chemical control (weeds), Chloroallyl diethyldithiocarbamate, 2-, Herbicides, Phytotoxicity, Prometryne, Tables (data). Czech and Russian summaries.

12106-69

#### SUGGESTIONS FOR WEED CONTROL WITH CHEMICALS.

*Tex Agr Exp Sta B* - (1029):40P

1969 100 T31S

Accident prevention, Chemical control (weeds), Crops, Dairy equipment, Herbicides, Irrigation ditches, Pesticide application, Weeds. Many herbicides are suggested for use.

12107-69

#### THE INFLUENCE OF APPLICATION TECHNIQUES AND ENVIRONMENT ON THE ACTIVITY AND PERSISTENCE OF TRIFLURALIN. (ABSTRACT).

R D Sweet C T Dickerson D W Davis G H Yer

*Weed Soc Amer Abstr 1967 MEETING*:94

1967 241 W41

Agricultural engineering, Chemical control (weeds), Environment, Equipment, Herbicide residues, Pesticide application, Trifluralin.

12108-69

#### HERBICIDAL MIXTURE AND METHOD OF USE. PATENT 3,429,687.

E D Weil

*Us Patent Office Offic Gaz* 859(4):1200

25 Feb 1969 156.65 OF2

Chemical control (weeds), Halogen compounds, Herbicides, Methodology, Patents, Phytotoxicity, Sulfates.

## LIVESTOCK PROTECTION

12109-69

#### TEA RESEARCH ASSOCIATION. ANNUAL SCIENTIFIC REPORT 1967-68.

Anonymous

*Tocklai Experiment Station* 12GP

1968 68.19 T56

Agricultural research, Chemical control (insects), Insect pests, Plant diseases, Reports, Tea. The arti-

cle contains information about insect pests and plant diseases.

12110-69

#### ON THE RELATIONSHIP BETWEEN ANIMALS AND MICROORGANISMS IN WOOD. (GE)

G Becker

*Holz Organ* 1:481-496 REF

1966 QK604.H6

Ambrosia, Animals, Bacteria, Coleoptera, Fungi, Microorganisms, Wood, Yeasts. English and French summaries.

12111-69

#### S-BENZOYLOXYMETHYL-THIAMINE ESTERS. PATENT 3,429,883.

F D'Alo A Masserini

*Us Patent Office Offic Gaz* 859(4):1236

25 Feb 1969 156.65 OF2

Animal nutrition, Esters, Feed, Food additives, Patents, Thiamine.

12112-69

#### ON THE SYMBIOSIS OF XYLO-MYCETOPHAGOUS AND PHLOEOPHAGOUS SCOLYTOIDEA WITH WOOD-INHABITING FUNGI. (GE)

H Francke-Grosmann

*Holz Organ* 1:503-522 REF

1966 QK604.H6

Ceratocystis, Fungus diseases (plants), Insect pests, Phloem, Scolytidae, Symbiosis, Wood, Wood staining fungi, Wood-destroying insects, Xylem. English and French summaries.

12113-69

#### AVIAN POX VIRUS VACCINE AND PROCESS OF PREPARING SAME. PATENT 3,429,965.

E F Gelenczei H N Lasher

*Us Patent Office Offic Gaz* 859(4):1249

25 Feb 1969 156.65 OF2

Avian poxviruses, Duck-embryo vaccine, Patents, Tissue culture, Vaccines.

12114-69

#### INCREASING EGG PRODUCTION IN POULTRY BY ADMINISTERING POULTRY FEEDING THIAMINE DERIVATIVES AND POULTRY FEED COMPOSITIONS CONTAINING SAID DERIVATIVES. PATENT 3,439,095.

Y Hamada M Yoshino

*Us Patent Office Offic Gaz* 861(3):935

15 Apr 1969 156.65 OF2

Egg production, Feed supplements, Patents, Poultry products, Thiamine.

12115-69

#### HEMOSTOP. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

*Fed Regist* 34(22):1611

01 Feb 1969 L1.451

Adrenochrome isonicotinic acid hydrazone, Blood coagulation, Drugs, Regulation (drugs), Veterinary medicine.

## DISEASES

12116-69

#### INTERSTATE TRANSPORTATION OF ANIMALS AND POULTRY. SCABIES IN SHEEP.

J Anderson

*Fed Regist* 33(59):4981

26 Mar 1968 L1.451

Animals, Interstate commerce, Poultry, Scabies, Sheep.

12117-69

#### TOXIC EFFECTS OF PHYTOLACCA THYSIFLORA CARURU BRAVO . (POR)

S O de Andrade

*Biologico* 35(3):60-63

Mar 1969 442.8 B529

Diagnosis, Livestock, Livestock diseases, Poisonous plants, Toxicology.

12118-69  
**CONTROLLING COBALT DEFICIENCY IN SHEEP.**  
 Anonymous  
*Farm Res News* 9(58SEP/OCT):106  
 1968 10.5 F223  
 Animal nutrition, Cobalt, Deficiency diseases, Livestock diseases, Sheep.

12119-69  
**FOOT AND MOUTH DISEASE.**

Anonymous  
 78-79  
 1968 413.9 IM7  
 Birds, Epidemiology, Foot-and-mouth disease, Virus diseases (animals), Wildlife diseases.

12120-69  
**FOOT AND MOUTH DISEASE: THE IMPORTANCE OF REPORTING SUSPECTED CASES.**

Anonymous  
*S Pacific Bull* 18(4):36-37  
 1968 280.8 SO89  
 Cattle, Disease transmission, Epidemiology, Foot-and-mouth disease, Infectious diseases, Livestock diseases, Virus diseases (animals).

12121-69  
**EVALUATION OF PARBENDAZOLE AS AN ANTHELMINTIC IN CATTLE.**  
 R E Bradley  
*Amer J Vet Res* 29(10):1979-1982  
 Oct 1968 41.8 AM3A  
 Anthelmintics, Cattle, Feed additives, Parasitism, Parbendazole, Veterinary medicine.

12122-69  
**ANTIGENIC ANALYSIS OF SOLUBLE TISSUE ANTIGENS FROM CHICKENS EXPOSED TO MAREK'S DISEASE AGENTS.**

H C Cho L M Ringen  
*Amer J Vet Res* 30(5):847-852 REF  
 May 1967 41.8 AM3A  
 Antigens, Avian leukosis complex viruses, Avian lymphomatosis, Chickens, Rous sarcoma virus.

12123-69  
**PREVENTING INFLUENZA INFECTIONS WITH BICYCLO(2.2.2)OCTANE-2-METHYLAMINE. PATENT 3,439,100.**

A W Chow  
*Us Patent Office Offic Gaz* 861(3):936  
 15 Apr 1969 156.65 OF2  
 Animal diseases, Bicyclo(2.2.2)octane-2-methylamine, Immunization, Infectious diseases, Influenza, Patents.

12124-69  
**PREVENTING INFLUENZA INFECTION WITH AMINOBICYCLO(3.2.2)NONANES. PATENT 3,439,102.**

A W Chow  
*Us Patent Office Offic Gaz* 861(3):936  
 15 Apr 1969 156.65 OF2  
 Aminoethylbicyclo(3.2.2)nonane, alpha-, Animal diseases, Immunization, Infectious diseases, Influenza, Patents.

12125-69  
**BICYCLO(3.2.1)OCTANE AMINES AS ANTI-INFLUENZA AGENTS. PATENT 3,439,101.**

A W Chow  
*Us Patent Office Offic Gaz* 861(3):936  
 15 Apr 1969 156.65 OF2  
 Amines, Animal diseases, Immunization, Infectious diseases, Influenza, Patents.

12126-69  
**TOXOPLASMOSIS IN THE MARMOT. (GE)**

C Commichau  
*Kleintier-Praxis* 13(5):141-144,146 REF  
 Jul 1968 41.8 K67  
 Animal diseases, Epithelial tumors, Mammals, Marmots, Rodents, Toxoplasma gondii, Toxoplasmosis, Zoological gardens.

12127-69  
**MECHANISM OF VIRUS ADSORPTION ON ACTIVATED CARBON.**

J T Cookson  
*Amer Water Works Ass J* 61(1):52-56 REF  
 Jan 1969 292.9 AM32J  
 Adsorption, Carbon, Hydrogen-ion concentration, Viruses, Water treatment.

Waterborne viruses may be inactivated in drinking water by the use of activated carbon. This study indicates that the viruses adsorb the carboxyl groups by electrostatic attraction.

12128-69  
**MASTITIS IN CATTLE AND ITS CONTROL.**

*Ireland Dep Agr Leafl* (113):8P  
 Apr 1967 10.5 IR42  
 California mastitis test, Cattle, Livestock diseases, Mastitis, Sanitation.

12129-69  
**TRICHOPHYTOSIS OF LABORATORY MICE. (RUS)**

O L Drozhdin V A Dushkin  
*Veterinariya* (12):108-109  
 Dec 1968 41.8 V6426  
 Laboratory animals, Mice, Ringworm, Trichophyton.

12130-69  
**GASTROINTESTINAL TRANSIT-TIMES IN NORMAL AND BLUECOMB DISEASED TURKEYS.**

G E Duke H E Dziuk L Hawkins  
*Poultry Sci* 48(3):835-842  
 May 1969 47.8 AM33P  
 Animal physiology, Bluecomb, Feeding, Gastrointestinal system, Turkeys.

12131-69  
**FORCE-FEEDING TURKEYS DURING BLUECOMB DISEASE.**

H E Dziuk G E Duke O A Evanson D E Nelson P N Schultz  
*Poultry Sci* 48(3):843-846  
 May 1969 47.8 AM33P  
 Animal physiology, Bluecomb, Feeding, Gastrointestinal system, Poultry diseases, Turkeys.

12132-69  
**BALANCES OF NAT AND KT IN NORMAL AND BLUECOMB DISEASED TURKEYS.**

H E Dziuk O A Evanson  
*Poultry Sci* 48(3):961-963  
 May 1969 47.8 AM33P  
 Biochemistry, Bluecomb, Ions, Potassium, Poultry diseases, Sodium, Turkeys.

12133-69  
**APPLICATION OF THE AGAR GEL TECHNIQUE IN THE DIAGNOSIS OF INFECTIOUS BOVINE RHINOTRACHEITIS.**

L A Estela  
*Amer J Vet Res* 28(127):1903-1904  
 Nov 1967 41.8 AM3A  
 Agar, Diagnosis, Infectious bovine rhinotracheitis virus, Precipitin test, Rabbits, Serum neutralization test.

12134-69  
**EQUINE PIROPLASMODIOSIS: COMPLEMENT-FIXATION TITERS OF HORSES INFECTED WITH BESBESIA CABALLI.**

W M Frerichs A A Holbrook A J Johnson  
*Amer J Vet Res* 30(5):697-702  
 May 1967 41.8 AM3A  
 Babesia caballi, Erythrocytes, Horses, Parasitism, Piroplasmosis.

12135-69  
**NUMBER OF SALMONELLA IN COMMERCIALY BROKEN EGGS BEFORE PASTEURIZATION.**

J A Garibaldi H Lineweaver K Ijichi  
*Poultry Sci* 48(3):1096-1101 REF  
 May 1969 47.8 AM33P  
 Eggs, Pasteurization, Salmonella, Surveys.

12136-69

**THE EXCRETION OF METHYLMALONIC AND FORMIMINOGLUTAMIC ACIDS DURING THE INDUCTION AND REMISSION OF VITAMIN B12 DEFICIENCY IN SHEEP.**

J M Gathorne  
*Australian J Biol Sci* 21(4):789-794 REF  
 Aug 1968 442.8 AU72

Biochemistry, Deficiency diseases, Feeding, Formimino glutamic acid, Injections, Methylmalonic acid, Sheep, Urine.

12137-69

**LEPTOSPIROSIS.**

R J Gillham  
*Tasmanian J Agr* 39(3):183-187  
 Aug 1968 23 T182T

Animal diseases, Human diseases, Immunization, Leptospira hyos, Leptospira pomona, Leptospirosis, Mortality, Weil's disease.

12138-69

**BABESIOSOMA ANSERIS (N.S.P.) INVESTIGATED IN THE GOOSE. CYGNOPSIS CYGNOIDES IN EGYPT.**

M H Habiba M N El-Shabrawy  
*J Vet Sci U A R* 4(2):189-194 REF  
 1967 SF604.J6

Babesiosoma anseris, Geese, Parasitism, Piroplasmosis, Poultry diseases. Arabic summary

12139-69

**SOME HAEMATOLOGICAL STUDIES ON BABESIOSOMA ANSERIS (HAIBA AND EL-SHABRAWY, 1967) IN THE GOOSE, CYGNOPSIS CYGNOIDES IN EGYPT.**

M H Haiba M N El-Shabrawy  
*J Vet Sci U A R* 4(2):177-187 REF  
 1967 SF604.J6

Babesiosoma anseris, Blood cells, Geese, Hematology, Parasitism, Poultry diseases. Arabic summary

12140-69

**INHERITANCE OF REACTION TO PHYTOPHTHORA ROT IN THE SOYBEAN.**

E E Hartwig B L Keeling C J Edwards  
*Crop Sci* 8(5):634-635

Sep 1968 64.8 C883  
 Phytophtora megasperma, Plant disease resistance, Plant genetics, Rot, Soybeans.

12141-69

**EFFECTS OF SIX SINGLE SPECIES OF COCCIDIA ON EGG PRODUCTION AND CULLING RATE OF SUSCEPTIBLE LAYERS.**

K S Hegde W M Reid  
*Poultry Sci* 48(3):928-932 REF

May 1969 47.8 AM33P  
 Chickens, Coccidiosis, Egg production, Eimeria, Poultry diseases.

12142-69

**INCLUSION BODIES IN HEPATIC CYTOPLASM OF DOGS AND RATS AFTER ADMINISTERING ENDOTOXIN.**

D D Holmes P D Smith  
*Amer J Vet Res* 30(5):811-815 REF

May 1967 41.8 AM3A  
 Cytoplasm, Dogs, Endotoxins, Escherichia coli, Rats.

12143-69

**A SEROLOGIC STUDY OF PSEUDORABIES IN SWINE.**

J A Howarth  
*Amer Vet Med Ass J* 154(12):1583-1589 REF  
 15 Jun 1969 41.8 AM3  
 California, Garbage (feed), Pseudorabies, Swine.

12144-69

**VETERINARY INVESTIGATION DIAGNOSIS ANALYSIS: A SYSTEM OF INFORMATION RECORDING AND RETRIEVAL FOR VETERINARY DIAGNOSTIC LABORATORIES IN THE MINISTRY OF AGRICULTURE, FISHERIES AND FOOD.**

M A Hugh-Jones D W Ivory R M Loosmore J Gibbins

Vet Rec 84(12):304-307  
22 Mar 1969 41.8 V641  
Animals, Diagnosis, Information retrieval systems, Salmonella.

12145-69  
BOVINE EPIZOOTIC FEVER.  
Y Inaba  
Japq 3(2):36-42 REF  
1968 S19.J3  
Cattle, Ephemeral fever, Virus diseases (animals).

12146-69  
COMPARISON IN NORMAL AND LEUKOPENIC COWS OF EXPERIMENTAL MASTITIS DUE TO AEROBACTER AEROGENES OR ESCHERICHIA COLI ENDOTOXIN.  
N C Jain O W Schalm J Lasmanis  
Amer Vet Med Ass J 30(5):715-724 REF  
May 1967 41.8 AM3  
Aerobacter aerogenes, Cattle, Escherichia coli, Mastitis.

12147-69  
SEROLOGIC RESPONSE OF COWS TO MYCOPLASMA UNDER EXPERIMENTAL AND FIELD CONDITIONS.  
N C Jain D E Jasper J D Dellinger  
Amer Vet Med Ass J 30(5):733-742 REF  
May 1967 41.8 AM3  
Antibodies, Cattle, Mastitis, Mycoplasma.

12148-69  
INVESTIGATIONS ON THE VIRUSES OF THE ORPHAN TYPE OCCURRING IN PIGS IN POLAND. VI. SEROLOGICAL COMPARISON OF PIG ENTEROVIRUSES LI, R3, R16, R24, R36, R59 AND C, AND OF THE VIRUSES OF HUMAN ORIGIN REO (ECHO10), AD2, ECHO1 AND ECHO2. (POL)  
T Jastrzebski J Gorski J Buczek  
Lublin Univ Mariae Curie Ann Sect Dd 22:61-68  
1967 512 L96AD  
Enteroviruses, Human diseases, Livestock diseases, Porcine enteroviruses, Serological tests, Swine, Teschen disease, Virology, Virus diseases (animals). English and Russian summaries.  
Many virus types are compared.

12149-69  
IMMUNODIFFUSION OF BLUETONGUE VIRUS.  
M M Jochim T L Chow  
Amer J Vet Res 30(1):33-41 REF  
Jan 1969 41.8 AM3A  
Antibodies, Antigens, Bluetongue virus, Cattle, Immunoochemistry, Sheep.

12150-69  
TOTAL-BODY IRRADIATION OF CANINE LYMPHOMA.  
R E Johnson T P Cameron R Kinard  
Radiat Res 36(3):629-632  
Dec 1968 334.8 R11  
Dogs, Irradiation, Livestock diseases, Lymphoma, Neoplasms, Therapeutics.

12151-69  
NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE SPECTINOMYCIN.  
J K Kirk  
Fed Regist 34(29,PT1):2063  
12 Feb 1969 L1.451  
Drugs, Food additives, Paracolobactrum arizonae, Poultry diseases, Regulation (drugs), Spectinomycin, Turkeys.

12152-69  
PATHOLOGIC CHANGES IN EDEMA DISEASE OF SWINE.  
H J Kurtz M E Bergeland D M Barnes  
Amer J Vet Res 30(5):791-806 REF  
May 1967 41.8 AM3A  
Arteritis, Brain, Edema disease, Encephalomalacia, Swine.

12153-69  
A GEL DIFFUSION PRECIPITIN TEST FOR BOVINE PAPILLOMA VIRUS.  
K P Lee C Olson  
Amer Vet Med Ass J 30(5):725-731 REF  
May 1967 41.8 AM3  
Antigens, Bovine papilloma virus, Cattle, Chickens, Rabbits.

12154-69  
NEOMYCIN SULFATE WITH VITAMINS A AND D FOR OPHTHALMIC USE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.  
H L Ley  
Fed Regist 34(38):2623  
26 Feb 1969 L1.451  
Bacteria, Dosage, Drug therapy, Drugs, Eyes, Neomycin sulfate, Ophthalmology, Veterinary medicine, Vitamin A, Vitamin D.

12155-69  
ANTIBODY RESPONSES OF COYOTES INOCULATED WITH VENEZUELAN EQUINE ENCEPHALITIS VIRUS.  
D L Lundgren K L Smart  
Wildlife Dis Ass Bull 5(1):39-42  
Jan 1969 41.9 W64B  
Antibodies, Coyotes, Venezuelan equine encephalitis virus, Virus diseases (animals), Wildlife diseases.

12156-69  
THE EFFECT OF MALACHITE GREEN AS A FUNGICIDE.  
R Martin  
Ohio J Sci 68(2):118-121  
Mar 1968 410 OH3  
Biological assay, Fish, Fungi, Fungicides, Malachite green.

12157-69  
INNERVATION OF HEART OF DOMESTICATED ANIMALS: PIG.  
J McKibben R Getty  
Amer J Vet Res 30(5):779-789  
May 1967 41.8 AM3A  
Heart, Livestock, Swine.

12158-69  
EXPERIMENTAL PATHOGENESIS OF LEPTOSPIRAL ABORTION IN CATTLE.  
J C Murphy R Jenson  
Amer Vet Med Ass J 30(5):703-713 REF  
May 1967 41.8 AM3  
Cattle, Fetus, Leptospira pomona.

12159-69  
DRY COW THERAPY AS A MEANS OF CONTROLLING BOVINE MASTITIS.  
J K L Pearson C L Wright  
Vet Rec 84(12):294-298 REF  
22 Mar 1969 41.8 V641  
Bovine mastitis, Cattle, Therapeutics.

12160-69  
VIRAL DISEASES OF THE CAT.  
J Prydie  
Inst Anim Tech J 19(4):176-181 REF  
Dec 1968 QL55.15  
Animal histology, Cats, Enteritis, Feline infectious enteritis, Feline rhinotracheitis virus, Picornaviruses, Respiratory diseases, Virus diseases (animals).

12161-69  
ATTEMPTS TO RELATE BOVINE PAPILLOMA VIRUS TO THE CAUSE OF EQUINE SARCOID: EQUIDAE INOCULATED INTRADERMALLY WITH BOVINE PAPILLOMA VIRUS.  
W L Ragnlund G R Spencer  
Amer Vet Med Ass J 30(5):743-752 REF  
May 1967 41.8 AM3  
Bovine papilloma virus, Horses, Neoplasms.

12162-69  
RESEARCH ON THE RESISTANCE OF MICROFILARIAE OF DIROFILARIA REPENS AT DIFFERENT TEMPERATURES. (IT)  
R Restani  
Parassitologia 10(1):75-83 REF  
Jul 1968 436.8 P212  
Blood parasites, Dirofilaria repens, Dogs, Microfilariae, Mortality, Temperature. English summary.

12163-69  
CROOKED CALF DISEASE.  
C W Rimby  
Calif Agr 23(5):7-8  
May 1969 100 C12CAG  
Calves, Crooked calf disease, Grazing, Lupine.

12164-69  
THE EFFECT OF DIBROMOXYQUINOLINE AND IODOCHLOROXYQUINOLINE OF SALMONELLOSIS IN MICE.  
O Ringertz L O Mentzing  
Acta Pathol Microbiol Scand 74(3):414-420 REF  
1968 448.3 AC8  
Bacteria, Dibromoxyquinoline, Drug therapy, Drugs, Infectious diseases, Intestines, Iodochlorhydroxyquin, Mice, Salmonella typhimurium, Salmonellosis, Spectra.

12165-69  
COMPOSITIONS AND METHODS FOR CONTROLLING COCCIDIOSIS IN POULTRY WITH 2,4-DISUBSTITUTED BENZAMIDE. PATENT 3,429,969.  
E F Rogers R L Clark  
Us Patent Office Offic Gaz 859(4):1250  
25 Feb 1969 156.65 OF2  
Benzamides, Coccidiosis, Drugs, Patents, Poultry diseases.

12166-69  
MIXED HEMADSORPTION TECHNIQUE FOR STUDY OF AVIAN LEUKOSIS-SARCOMA VIRUSES: STANDARDIZATION OF THE TECHNIQUE.  
C R Rossi D Segre  
Amer J Vet Res 30(5):821-829 REF  
May 1967 41.8 AM3A  
Avian leukosis complex viruses, Blood, Chickens, Rous sarcoma virus.

12167-69  
MIXED HEMADSORPTION TECHNIQUE FOR STUDY OF AVIAN LEUKOSIS-SARCOMA VIRUSES: STUDIES WITH AVIAN LEUKOSIS VIRUSES.  
C R Rossi D Segre  
Amer J Vet Res 30(5):831-836 REF  
May 1967 41.8 AM3A  
Avian leukosis complex viruses, Blood, Chickens, Rous sarcoma virus.

12168-69  
IMPORTANCE OF THE BURSA OF FABRICIUS IN RESISTANCE TO DISEASE. 2. RESISTANCE TO TWO BACTERIAL DISEASES.  
R Sadler S A Edgar  
Poultry Sci 48(3):1090-1096 REF  
May 1969 47.8 AM33P  
Bursa, Chickens, Escherichia coli, Fabricius, Immunity, Poultry diseases, Salmonella typhimurium.

12169-69  
ELECTROPHORETIC ANALYSIS OF SERUM PROTEINS OF CHICKENS EXPERIMENTALLY INFECTED WITH MAREK'S DISEASE AGENT.  
B Samadieh R A Bankowski E J Carroll  
Amer J Vet Res 30(5):837-846 REF  
May 1967 41.8 AM3A  
Avian lymphomatosis, Chickens, Immunity.

12170-69  
EFFECTS OF A PATHOGENIC PORCINE ADENOVIRUS ON PORCINE KIDNEY CELL CULTURE.  
J A Shadduck L Kasza A Koestner  
Amer J Vet Res 30(5):771-778 REF

May 1967 41.8 AM3A  
Adenoviruses, Antigens, Swine.

12171-69

PROBLEM OF AVIAN LEUKOSIS IN LAHORE.  
S A Sheikh M Ahmad K A Tahir  
*Pakistan J Sci 19(516, SEP-NOV):212-217 REF*  
1967 475 P172

Avian leukosis complex, Disease control, Epidemiology, Pakistan, Poultry diseases, Virus diseases (animals).

12172-69

EQUINE BABESIOSIS: DIAGNOSIS BY BENTONITE AGGLUTINATION AND PASSIVE HEMAGGLUTINATION TESTS.

S Sabinovic K H Sabinovic M Ristic  
*Amer Vet Med Ass J 30(5):691-695*

May 1967 41.8 AM3  
Dogs, Horses, Piroplasmosis, Rats.

12173-69

RHEUMATOID ARTHRITIS OF SWINE: A COMPARATIVE PATHOLOGIC STUDY OF CLINICAL SPONTANEOUS REMISSIONS AND EXACERBATIONS.

D Sikes L T Crimmins O J Fletcher  
*Amer J Vet Res 30(5):753-769 REF*  
May 1967 41.8 AM3A

Arthritis, Erysipelocephalothrix insidiosa, Swine.

12174-69

A MILESTONE IN MG CONTROL.

W S Staples  
*Merck Agr Memo (43, WINTER):1-3*  
1969 41.8 M53

Antibiotics, Drug therapy, Eradication, Fungus diseases (animals), Mycoplasma gallisepticum, Poultry diseases, Sanitation.

12175-69

FUNGICIDAL ACTION OF THIABENDAZOLE. ITS PROVIDENTIAL EFFICACY AGAINST PYPHOMYCES CHARTERON, THE CAUSAL AGENT OF ENZOOTIC FACIAL ECZEMA OF SHEEP IN NEW ZEALAND. (FR)

F Staron  
*Acad Vet France Bull 41(7):309-310*

Jul 1968 41.9 R24

Basidiomycetes, Fungicides, Fungus diseases (animals), Livestock diseases, Sheep, Thiazolylbenzimidazole, 2-(4-).

12176-69

HYPERVITAMINOSIS A AND BONE DEFORMITIES IN TURKEYS AND CHICKENS. (ABSTRACT).

R H Thayer E C Welson  
*Fed Amer Soc Exp Biol Fed Proc 27(2):310*

Mar 1968 442.9 F31P

Animal abnormalities, Animal nutrition, Bones, Chickens, Enzymes, Growth factors, Hypervitaminosis A, Lysosomes, Poultry diseases, Retinyl palmitate, Turkeys, Vitamin A.

12177-69

A COMBINED BOVINE PARAINFLUENZA AND ADENOVIRUS VACCINE.

G W Tribe A D Kanarek J B Kerry G White  
*Vet Rec 84(12):299-303*

22 Mar 1969 41.8 V641

Adenoviruses, Cattle, Parainfluenza, Viral vaccines.

12178-69

PARASITES

ECOLOGY OF LICE ON SHEEP. VI. THE INFLUENCE OF SHEARING AND SOLAR RADIATION ON POPULATIONS AND TRANSMISSION OF DAMALINIA OVIS.

M D Murray  
*Australian J Zool 16(5):725-738*

Nov 1968 410 AU73

Damalinia ovis, Insect dissemination, Insect ecology, Mallophaga, Sheep, Sheep shearing, Solar radiation, Temperature.

12179-69

THE USE OF PARASYMPATHOMIMETIC DRUGS TO STIMULATE SALIVATION IN THE TICK RHIPICEPHALUS APPENDICULATUS, AND THE TRANSMISSION OF THEILERIA PARVA USING SALIVA OBTAINED BY THIS METHOD FROM INFECTED TICKS.

R E Purnell D Branagan D E Radley  
*Parasitology 59(3):709-718*

R D Vatne R R Baron

*Us Patent Office Offic Gaz 861(3):936*

15 Apr 1969 156.65 OF2

Benzeneacrylic acid, Blackhead, Drug therapy, Methodology, Nitroimidazole, 5-, Patents, Poultry diseases.

12180-69

AFTER-EFFECTS OF PHOSPHORUS DEFICIENCY. (RUS)

V N Veretennikov

*Veterinariya (12):81-82*

Dec 1968 41.8 V6426

Animal diseases, Deficiency diseases, Phosphorus.

12181-69

MINOR CAUSES OF DAMAGE TO PELTS.

G W Vivian

*Spur 2(6):36-37*

Jun 1968 S544.5.A83S6

Animal diseases, Facial eczema, Foreign trade, Fungus diseases (animals), Hides, Lesions, Liver diseases, Ringworm, Scald.

12182-69

FOOT-AND-MOUTH DISEASE: BRITAIN STRIVES TO CURB EPIDEMIC.

J Walsh

*Science 158(3807):1435-1437*

15 Dec 1967 470 SCI2

Costs, Disease control, Epidemiology, Foot-and-mouth disease, Immunization, Infectious diseases, Livestock diseases, Meat, Regulations, Slaughtering, Trade barriers, Vaccines, Virus diseases (animals).

12183-69

TETANUS IN A GREY SQUIRREL.

G Wobeser

*Wildlife Dis Ass Bull 5(1):18*

Jan 1969 41.9 W643

Animal diseases, Clostridium tetani, Spasms, Squirrels, Tetanus, Wildlife diseases.

12184-69

SEARCH FOR NATURAL NIDALITY OF INFLUENZA AND PARAINFLUENZA VIRUSES IN ILLINOIS.

G T Woods P R Schnurrenberger R J Martin M S Zinziela

*Amer J Vet Res 30(5):869-874 REF*

May 1967 41.8 AM3A

Influenza, Livestock, Myxoviruses, Parainfluenza, Wildlife.

12185-69

NI-ACETYL-NI-(CYCLOPROPYL-2-PYRIMIDINYL)-SULPHANILAMIDES. PATENT 3,438,980.

M Zimmermann

*Us Patent Office Offic Gaz 861(3):916*

15 Apr 1969 156.65 OF2

Bacteria, Drugs, Patents, Pyrimidines, Sulfonamides.

## ARTHROPODS

12186-69

ECOLOGY OF LICE ON SHEEP. VI. THE INFLUENCE OF SHEARING AND SOLAR RADIATION ON POPULATIONS AND TRANSMISSION OF DAMALINIA OVIS.

M D Murray

*Australian J Zool 16(5):725-738*

Nov 1968 410 AU73

Damalinia ovis, Insect dissemination, Insect ecology, Mallophaga, Sheep, Sheep shearing, Solar radiation, Temperature.

12187-69

THE USE OF PARASYMPATHOMIMETIC DRUGS TO STIMULATE SALIVATION IN THE TICK RHIPICEPHALUS APPENDICULATUS, AND THE TRANSMISSION OF THEILERIA PARVA USING SALIVA OBTAINED BY THIS METHOD FROM INFECTED TICKS.

R E Purnell D Branagan D E Radley

*Parasitology 59(3):709-718*

Aug 1969 448.8 P21

Animal disease transmission, Cattle, Drugs, Insect physiology, Insect vectors, Rabbits, Rhipicephalus appendiculatus, Salivary glands (insects), Theileria parva.

12188-69

MASSIVE PULMONARY ACARIASIS IN THE PIG-TAILED MACAQUE.

W B Stone J A Hughes

*Wildlife Dis Ass Bull 5(1):20-22*

Jan 1969 41.9 W643

Acariasis, Animal diseases, Animal histology, Culture media, Insect vectors, Lungs, Monkeys, Parasitism, Wildlife diseases.

12189-69

TRIALS WITH INSECTICIDES FOR CONTROL OF BLACK BEETLE (HETERONYCHUS ARATOR BLANCHARD) LARVAE AND ADULTS IN PASTURE.

D H Todd

*New Zeal J Agr Res 10(2):278-288*

May 1967 23 N4892

Chemical control (insects), Chlorinated hydrocarbons, Diazinon, Dieldrin, Endrin, Heptachlor, Heteronychus sanctae-helenae, Insecticides, Isobenzan, Organophosphorus compounds, Pastures.

12190-69

FURTHER STUDIES ON THE PLASMODIUM BERGHEI-ANOPHELES STEPHENSI-RODENT SYSTEM OF MAMMALIAN MALARIA.

J P Vanderberg R S Nussenzweig H Most

*J Parasitol 54(4):1009-1016 REF*

Oct 1968 448.8 J824

Animal diseases, Anopheles stephensi, Insect rearing, Insect vectors, Malaria, Plasmodium, Rodents.

## PARASITES

12191-69

ANTHELMINTIC ACTIVITY OF PARBENDAZOLE IN SWINE.

J Chang R B Wescott

*Amer J Vet Res 30(1):77-79*

Jan 1969 41.8 AM3A

Anthelmintics, Ascaris lumbricoides suum, Feces, Helminths, Oesophagostomum, Parbendazole, Swine, Trichuris suis.

12192-69

ISOLATION OF TWO ANTIGENIC FRACTIONS FROM HYDATIC FLUID OF ECHINOCOCCUS GRANULOSUS.

J Ejden M A G Perez D Busse

*Experientia 23(9):757-758 REF*

15 Sep 1967 475 EX7

Antigens, Chromatography, Echinococcus granulosus, Methodology.

12193-69

NEW PARASITIC NEMATODES REPORTED IN ALPACAS (LAMA PACOS) FROM PERU, WITH A DESCRIPTION OF SPICULOPTERAGIA PERUVIANUS N. SP. (SP)

C A Guerrero C A Chavez

*Bol Chileno Parasitol 22(4, OCT-DEC):147-150 REF*

1967 436.9 C43

Alpacas, Camelostomylus mentulatus, Diagnosis, Haemonchus contortus, Llamas, Nematodes, Ostertagia lylra, Parasitism. English summary.

12194-69

CLOVER'S IMPERIAL DOG CAPSULES. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.

H L Jr. Ley

*Fed Regist 34(24):1738-1739*

05 Feb 1969 LI.451

Ancylostomatidae, Ascaris, Butyl chloride, n-Dogs, Dosage, Drugs, Parasitism, Veterinary medicine.

12195-69  
**ANTHOL. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.**  
 H L Jr. Ley  
*Fed Regist* 34(22):1608  
 01 Feb 1969 L1.451  
 Ancylostomatidae, Anthol, Ascaris, Cestoda, Dogs, Drugs, Parasitism, Regulation (drugs), Veterinary medicine.

12196-69  
**RINGET. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION ANNOUNCEMENT.**  
 H L Jr. Ley  
*Fed Regist* 34(25):1783-1784  
 06 Feb 1969 L1.451  
 Benzethonium chloride, Cats, Chlorides, Cyclomethycaine hydrochloride, Drugs, Parasitism, Regulation (drugs), Ringworm, Trichlorophenol, 2,4,5-, Veterinary medicine.

12197-69  
**WORMAL GRANULES AND WORMAL TABLETS. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.**  
 H L Jr. Ley  
*Fed Regist* 34(22):1613-1614  
 01 Feb 1969 L1.451  
 Ascaris, Cecal worms, Cestoda, Chickens, Dibutyltin dilaurate, Parasitism, Phenothiazine, Piperazine, Regulation (drugs), Turkeys, Veterinary medicine.

12198-69  
**TRANSMISSION OF THEILERIA ANNULATA BY THE CRUSHED INFECTED UNFED HYALOMMA DROMEDARII.**  
 Z Mazlum  
*Parasitology* 59(3):597-600  
 Aug 1969 448.8 P21  
 Animal disease transmission, Calves, Hyalomma dromedarii, Insect vectors, Ixodidae, Theileria annulata.

12199-69  
**INCREASED LIVE WEIGHT GAIN AND WOOL WEIGHT FROM ANTHELMINTIC DRENCHING OF EWE HOGGETS IN SOUTH CANTERBURY.**  
 C C McLeod J E Wolff  
*New Zeal J Agr Res* 11(2):407-419 MAP REF  
 May 1968 23 N4892  
 Anthelmintics, Drenches, Sheep, Thiazolyl-benzimidazole, 2-(4-, Wool.

12200-69  
**SOME OBSERVATIONS ON THE WORM BURDENS OF CALVES INFECTED DAILY WITH OSTERTAGIA OSTERTAGI.**  
 J F Michel  
*Parasitology* 59(3):575-595 REF  
 Aug 1969 448.8 P21  
 Animal physiology, Calves, Immunity, Nematodes, Ostertagia ostertagi, Population.

12201-69  
**SYSTEMS ANALYSIS OF A HOST-PARASITE INTERACTION.**  
 L H Racliffe H M Taylor J H Whitlock W R Lynn  
*Parasitology* 59(3):649-661 REF  
 Aug 1969 448.8 P21  
 Environment, Haemonchus contortus, Models, Nematodes, Sheep, Statistical analysis.

12202-69  
**CHICKEN HELMINTHOSES AND PROSPECTS OF THEIR ERADICATION IN THE LOWER VOLGA BASIN. (RUS)**  
 G I Rhonzina Y M Avyodov  
*Veterinariya* (12):56-58  
 Dec 1968 41.8 V6426  
 Chickens, Helminthiasis, Poultry diseases.

12203-69  
**THE GROWTH OF STORAGE FUNGI AND AFLATOXIN PRODUCTION IN CORN AS RELATED TO MOISTURE AND TEMPERATURE.(ABSTRACT).**  
 J H Hunter J F Tuite  
*Phytopathology* 57(8):816  
 Aug 1967 464.8 P56  
 Aflatoxin, Aspergillus flavus, Corn, Humidity, Molds, Storage diseases, Temperature.

12204-69  
**CYTOTOXIC EFFECTS OF EXTRACTS FROM GAMMA-IRRADIATED PINEAPPLES.**  
 Y Makinen M D Upadhyay J L Brewbaker  
*Nature* 214(5086):413  
 22 Apr 1967 472 N21  
 Food storage, Gamma rays, Irradiation, Pineapples, Toxicology.

12205-69  
**RESEARCH ON THE EFFECTIVENESS OF COBALT 60 IRRADIATION FOR THE CONTROL OF SITOPHILUS GRANARIUS AND TRIBOLIUM CONFUSUM DUV. (TU)**  
 T Esin M Alganatay  
*Bitki Koruma Buletini* 8(1):39-60  
 Mar 1968 464.8 B542  
 Biological control (insects), Chemical control (insects), Cobalt isotopes, Gamma rays, Insect pests, Irradiation, Research, Sitophilus granarius, Stored products, Tribolium confusum. English summary.

12206-69  
**SUBTERRANEAN TERMITES: THEIR PREVENTION AND CONTROL IN BUILDINGS.**  
 R A George H R Johnston R J Kowal  
*U S D A Home Gard Bull* (64):30P MAP  
 Jan 1969 1 AG84HG  
 Buildings, Chemical control (insects), Insect biology, Insect ecology, Insect identification, Insecticides, Soils, Termites, Wood-destroying insects.

12207-69  
**INVESTIGATION INTO THE POSSIBILITY OF THE SURVIVAL OF TOXOPLASMA IN RAW SAUSAGE AND HAM. (GE)**  
 E Scupin  
*Arch Lebensmittelhyg* 18(1):12-16 REF  
 Jan 1967 41.8 L49  
 Food contamination, Ham, Muscles, Rodents, Sausages, Toxoplasma. German and english abstract

12208-69  
**PESTICIDES REMOVED FROM WATER WITH ACTIVATED CARBON.**  
 Anonymous  
*Citrus Vet Mag* 32(5):22  
 Jan 1969 80 C498  
 Carbon, Chlorinated hydrocarbons, Dieldrin, Filters, Pesticide residues, Water analysis, Water pollution.

12209-69  
**PERSISTANCE AND DECOMPOSITION OF DICHLOBENIL IN SOIL. (ABSTRACT).**

12210-69  
**THE EFFECT OF HIGH LEVELS OF DIETARY DDT ON EGG PRODUCTION, MORTALITY, FERTILITY, HATCHABILITY AND PESTICIDE CONTENT OF YOLKS IN JAPANESE QUAIL.**  
 S I Smith C W Weber B L Reid  
*Poultry Sci* 48(3):1000-1004  
 May 1969 47.8 AM33P  
 Chlorinated hydrocarbons, DDT, Egg production, Egg yolks, Fertility, Hatching, Insecticides, Mortality, Quail.

12211-69  
**METHOD FOR DETERMINING THE FENTHION RESIDUES IN OLIVES AND OLIVE OIL. (FR)**  
 N C Adam  
*Inst Phyto Pathol Benaki Ann (N s)* 8(2):78-83  
 1967 464.9 AT4  
 Fenthion, Insecticide residues, Methodology, Olive oil, Olives, Organophosphorus compounds, Parathion.

12212-69  
**HERBICIDES HAVE LITTLE EFFECT ON PLANT-ANIMAL RELATIONSHIPS.**  
 Anonymous  
*Citrus Vet Mag* 32(5):10  
 Jan 1969 80 C498  
 Animals, Cacodylic acid, Chemical control (weeds), D, 2,4-, Defoliation, Herbicide application, Herbicide residues, Herbicides, Phenoxy acid compounds, Picloram, Plant ecology, T, 2,4,5-, Toxicology.

12213-69  
**CROP SEEDLING UPTAKE OF DDT, DIELDRIN, ENDRIN, AND HEPTACHLOR FROM SOILS.**  
 M L Beall R G Nash  
*Agron J* 61(4 JUL-AUG):571-575 REF  
 1969 4 AM34P  
 Absorption, Crops, Dieldrin, DDT, Endrin, Heptachlor, Insecticide residues, Seedlings, Soils.

12214-69  
**FENSULFOOTHION AND BAYER 37289 RESIDUES ON PASTURE.**  
 H V Brewerton M M Gibbs D C F Perrott  
*New Zeal J Agr Res* 11(2):303-312  
 May 1968 23 N4892  
 Diethyl O-p-((methylsulfinyl)phenyl) phosphorothioate, O, Ethyl O-2,4,5-trichlorophenyl ethyl phosphorothioate, O-, Insecticide residues, Pastures.

12215-69  
**NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.**  
 R E Duggan  
*Fed Regist* 34(24):1739  
 05 Feb 1969 L1.451  
 Chemicals, Corn, Dimethyl 2,3,5,6-tetrachloroterephthalate, Food, Forage plants, Herbicides, Monomethyl 2,3,5,6-tetrachloroterephthalate, Pesticide residues, Regulation (pesticides), Tetrachloroterephthalic acid, 2,3,5,6-.

12216-69  
**PATHOLOGY IN REDEAR SUNFISH EXPOSED TO HYDROTHOL 191.**  
 L L Eller  
*Amer Fish Soc Trans* 98(1):52-59 REF  
 Jan 1969 414.9 AM3

## RESIDUES

12217-69

Aquatic weeds, Endothall, Fish, Fish poisons, Fisheries, Herbicide residues, Herbicides, Tissue culture, Weed control.

12217-69

**TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. INSECTICIDE MIXTURE.**

J K Kirk

*Fed Regist* 34(22):1588-1589

01 Feb 1969 L1.451

Agricultural products, Chemicals, Corn, Ethylpropylphenyl methylcarbamate, m-(1-, Insecticides, Methylbutyl)phenyl methylcarbamate, m-(1-, Pesticide residues, Regulation (pesticides), Tolerances.

12218-69

**N'-(4-CHLORO-O-TOLYL)-N,N-DIMETHYL-FORMAMIDINE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE FOR PESTICIDE CHEMICALS.**

J K Kirk

*Fed Regist* 34(36):2518

21 Feb 1969 L1.451

Apples, Chloro-o-tolyl)-N, N-dimethylformamidine, N'-(4-, Insecticides, Legislation, Pesticide residues, Public health, Regulation (pesticides), Tolerances.

12219-69

**EFFECTS OF SIMAZINE ALONE AND IN COMBINATION WITH HAY OR PLASTIC MULCH ON MCINTOSH APPLE TREES AND ACCUMULATION OF SIMAZINE RESIDUES.**

W J Lord R A Damon B Gersten

*Amer Soc Horticult Sci Proc* 93:62-70 REF

Dec 1968 81 SO12

Apples, Hay mulches, Mulches, Pesticide residues, Plant physiology, Plastics, Simazine, Trees.

12220-69

**DETERMINATION OF ORGANOCHLORINE INSECTICIDES IN SOILS AND WATERS.**

H B Pionke G Chesters

*Soil Sci Soc Amer Proc* 32(6;NOV-DEC):749-759

REF

1968 56.9 SO3

Chlorinated hydrocarbons, Insecticide residues, Insecticides, Methodology, Soil extracts, Soils, Water.

12221-69

**IDENTIFICATION OF METABOLITES OF DIELDRIN (HEOD) IN THE FAECES AND URINE OF RATS.**

A Richardson M Baldwin J Robinson

*J Sci Food Agr* 19(9):524-529 REF

Sep 1968 382 SO12

Chromatography, Dieldrin, Feces, Infrared spectra, Insecticide residues, Metabolites, Rats, Urine.

## TOXICOLOGY

12222-69

**GONADOTROPIC HORMONES IN HENS TREATED WITH ETHYLENE DIBROMIDE.**

E Alumot E Mandel

*Poultry Sci* 48(3):957-960

May 1969 47.8 AM33P

Biochemistry, Chickens, Egg production, Ethylene dibromide, Gonadotropins, Hormones, Pesticides.

12223-69

**POISONS THAT HIT AND RUN.**

J M Barnes

*New Scientist* 38(602):619

20 Jun 1968 472 N42

Herbicide residues, Humans, Mortality, Paraquat, Poisoning, Toxicology.

12224-69

**CHEMOTHERAPY OF EXPERIMENTAL ANAPLASMA MARGINALE INFECTIONS: TRI-**

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**ALS WITH AN EXPERIMENTAL DITHIOSEMICARBAZONE (ALPHA-ETHOX-YETHYLGLYOXAL DITHIOSEMICARBAZONE).**

C G D Brown J K H Wildc J Berger  
*Bri Vet J* 124(8):325-334

Aug 1968 41.8 V643

Anaplasma marginale, Cattle, Dithiosemicarbazones, Drug therapy, Microorganisms, Parasitism, French, German and Spanish summaries.

12225-69

**DETERRIMENTAL INSECTS AND FIGHTING AGAINST THEM. IV. TENDENCIES TO LIMIT CHEMICAL WARFARE. (PO)**

W Eichler

*Przegl Zool* 13(2):179-183

1969 410 P95

Chemical control (insects), DDT, Insecticide residues, Insecticides, Toxicology. English abstract

12226-69

**ACUTE CUTANEOUS TOXICITY OF CERTAIN ORGANOPHOSPHOROUS INSECTICIDES. II - PHOSPHAMIDON. (FR)**

R Fytzas-Daniclidou

*Inst Phyto Pathol Benaki Ann (N s)* 8(2):47-57

REF

1967 464.9 AT4

Blood plasma, Cholinesterases, Insecticides, Laboratory animals, Lethal dose, Organophosphorus compounds, Phosphamidon, Rats, Skin, Toxicology.

12227-69

**USE OF FINTROL-5 TO CONTROL UNDESIRABLE FISHES IN SHRIMP-OYSTER PONDS.**

J V Huner

*La Acad Sci Proc* 31:58-61

31 Dec 1968 500 L932

Antimycin a, Biological assay, Chemical control (pests), Fish, Fishponds, Laboratory animals, Oysters, Residues, Shrimps, Snails, Wildlife conservation.

12228-69

**CALCIUM DISODIUM EDETADE INJECTION. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.**

H L Jr. Ley

*Fed Regist* 34(22):1609-1610

01 Feb 1969 L1.451

Calcium disodium edetate, Drugs, Injections, Lead, Livestock, Regulation (drugs), Toxicology, Veterinary medicine.

## PLANT PHYSIOLOGY & BIOCHEMISTRY

12229-69

**PHYSIOLOGICAL STUDIES OF GAMMA-IRRADIATED TOMATO FRUITS. III. EFFECTS ON ASCORBIC ACID CONTENT, ACIDITY AND TEXTURE.**

A S Abdcl-Kader L L Morris E C Maxie

*Amer Soc Horticult Sci Proc* 93:843-853 REF

Dec 1968 81 SO12

Ascorbic acid, Gamma rays, Hydrogen-ion concentration, Irradiation, Plant physiology, Tomatoes, Vitamins.

12230-69

**JUVENILITY AS RELATED TO CHEMICAL CONTENT AND ROOTING OF STEM CUTTINGS OF PYRUS SPECIES.**

N Ali M N Westwood

*Amer Soc Horticult Sci Proc* 93:77-82 REF

Dec 1968 81 SO12

Carbohydrates, Nitrogen, Plant biochemistry, Plant cuttings, Plant physiology, Pyrus.

12231-69

**INVESTIGATIONS ON THE DECOMPOSITION CAPACITY OF WOOD DECAY FUNGI. (GE)**

U Ammer W Liese

*Holz Organ* 1:291-299

1966 QK604.H6

Decomposition, Fungus diseases (plants), Plant physiology, Research, Wood, Wood decay, Wood destroying fungi. English and French summaries.

12232-69

**HORTICULTURISTS STUDY - EFFECTS OF LONG-TERM EXPOSURE TO 2,4-D.**

Anonymous

*Iowa Farm Sci* 23(9):12

Mar 1969 275.29 IO94

D, 2,4-, Horticulture, Pesticide application, Phenoxy acid compounds, Plant biochemistry, Plant injuries.

12233-69

**CYTIOLOGICAL AND MORPHOLOGICAL EVIDENCE FOR THE SINGLE-CELL ORIGIN OF VEGETATIVELY PROPAGATED SHOOTS IN THIRTEEN SPECIES OF SAINTPAULIA TREATED WITH COLCHICINE.**

T Arisumi L C Frazier

*Amer Soc Horticult Sci Proc* 93:679-685

Dec 1968 81 SO12

Cells, Colchicine, Plant cuttings, Plant cytology, Plant morphology, Plant physiology, Polyploidy, Saintpaulia.

12234-69

**SOME FACTORS AFFECTING THE IN VITRO DEVELOPMENT OF STRAWBERRY FRUITS.**

Y P S Bajaj W B Collins

*Amer Soc Horticult Sci Proc* 93:326-333 REF

Dec 1968 81 SO12

Calyx, Gibberellic acid, Indolebutyric acid, Kinetin, Light, Naphthaleneacetic acid, Plant physiology, Plant regulators, Strawberries, Tissue culture.

12235-69

**EFFECT OF PH ON THE CULTURAL BEHAVIOUR OF ISOLATED STRAINS OF IRPEX FLAVUS LK.**

S Banerjee R P Purkayastha

*Indian J Mycol Res* 4(112):58-60

1966 450 IN29

Culture media, Growth factors, Hydrogen-ion concentration, Irpex flavus, Plant physiology, Wood destroying fungi.

12236-69

**EFFECTS OF ALAR ON THE GROWTH AND DISTRIBUTION OF THE GROWTH INCREMENT IN ONE YEAR OLD APPLE TREES.**

J A Barden

*Amer Soc Horticult Sci Proc* 93:33-39 REF

Dec 1968 81 SO12

Apples, Plant growth inhibitors, Plant physiology, Plant translocation, Succinic acid, 2,2-dimethylhydrazide, Trees.

12237-69

**THE EFFECT OF 3-AMINO-1,2,4,-TRIAZOLE ON THE ULTRASTRUCTURE OF PLASTIDS OF TRITICUM VULGARE SEEDLINGS.**

P G Bartels T E Weier

*Amer J Bot* 56(1):1-7 REF

Jan 1969 450 AM36

Amitrole, Chloroplasts, Herbicides, Plant biochemistry, Plant histology, Plastids, Seedlings, Wheat.

12238-69

**THE PHYSIOLOGY OF WOOD FUNGI. A SURVEY ON RECENT RESEARCH RESULTS. (GE)**

W Bavendamm

*Holz Organ* 1:213-236 REF

1966 QK604.H6

Fungus diseases (plants), Metabolism, Plant biochemistry, Plant physiology, Research, Surveys, Wood, Wood destroying fungi. English and French summaries.

12239-69

**HALOVINYL MERCURIALS AS PLANT DEFOILIANTS. PATENT 3,433,621.**

H G Braxton E J Lajiness

Us Patent Office Offic Gaz 860(3):865

18 Mar 1969 156.65 OF2

Chlorides, Defoliants, Defoliation, Mercury compounds, Phytotoxicity, Plant physiology, Trichlorovinyl)mercury, bis.

12240-69

EFFECT OF SPRAYING AND DEFOLIATION ON FLOWER SHEDDING IN YELLOW LUPINE (LUPINUS LUTEUS L.).

W Byczewski J Szklarska

Rocz Nauk Roln 95(2):177-189

1969 20.5 R59

Defoliants, *Lupinus luteus*, Plant physiology, Seeds, Spraying. Russian and English abstracts.

12241-69

ENHANCING THE ACTIVITY OF CHEMICAL GROWTH RETARDANTS. PART ONE OF A DISCUSSION OF UNI-F529 AS IT COMPARES WITH B995 AS A CHEMICAL GROWTH RETARDANT.

H M Cathey

Florist Rev 144(3719):56-57,135

13 Mar 1969 80 W41

Dimethylhydrazide succinic acid, 2,2-, Dosage, Ornamental plants, Plant biochemistry, Plant growth inhibitors, Pyrrolidino-succinamic acid, N-.

12242-69

RESPONSE OF DIANTHUS CARYOPHYLLUS L. (CARNATION) TO SYNTHETIC ABSCISIC ACID.

H M Cathey

Amer Soc Horticult Sci Proc 93:560-568 REF

Dec 1968 81 SO12

Abscisic acid, *Dianthus caryophyllus*, Dosage, Plant physiology, Plant regulators.

12243-69

RESPONSE OF SOME ORNAMENTAL PLANTS TO SYNTHETIC ABSCISIC ACID.

H M Cathey

Amer Soc Horticult Sci Proc 93:693-698

Dec 1968 81 W12

Abscisic acid, Foliar application, Ornamental plants, Photoperiodism, Plant growth inhibitors.

12244-69

EFFECT OF (2-CHLOROETHYL)TRIMETHYLMONIUM CHLORIDE (CCC) ON FROST RESISTANCE, YIELD, AND SEED QUALITY INDEXES OF WINTER RAPE. (PO)

A Chrominski H Belt M Michniewicz

Rocz Nauk Roln 95(2):191-196 REF

1969 20.5 R59

Chloroethyl)trimethylammonium chloride, (2-, Crop yields, Frost, Plant resistance, Rape, Seeds. Russian and English abstract

12245-69

THE ENZYMES HYDROLYSING CARBOHYDRATES OF XYLOPHAGOUS INSECTS PARASITIC OF SOFTWOODS AND SOME OTHER FOREST TREES. (FR)

J E Courtois C Chararas

Holz Organ 1:127-150 REF

1966 QK604.H6

Carbohydrates, Conifers, Enzymes, Hydrolysis, Insect pests, Parasitism, Plant biochemistry, Trees. English and German summaries.

12246-69

DISTRIBUTION AND REUSE OF NITROGEN IN WOOD-DESTROYING FUNGI.

E B Cowling W Merrill

Holz Organ 1:269-274 REF

1966 QK604.H6

Clitocybe tabescens, *Fomes applanatus*, *Fomes fomentarius*, *Lenzites trabea*, Nitrogen, Plant biochemistry, Plant translocation, *Polyporus versicolor*, Wood destroying fungi. German and French summaries.

12247-69

CHEMICAL MODIFICATION OF WOOD DURING MICROBIAL DETERIORATION.

E B Cowling

Holz Organ 1:91-102 REF

1966 QK604.H6

Enzymes, Fungus diseases (plants), Plant biochemistry, Polymerization, Wood, Wood properties. German and French summaries.

12248-69

ANTITRANSPIRANTS: USES AND EFFECTS ON PLANT LIFE.

D C Davenport R M Hagan P E Martin

Calif Agr 23(5):14-15

May 1969 100 C12CAG

Irrigation, Pest control, Phenylmercuric acetate, Plant regulators, Plant transpiration, Spraying, Stomata.

12249-69

GROWTH AND FLOWERING RESPONSES OF APPLE AND PEAR SEEDLINGS TO GROWTH RETARDANTS AND SCORING.

F G Dennis

Amer Soc Horticult Sci Proc 93:53-61 REF

Dec 1968 81 SO12

Apples, Chloroethyl)trimethylammonium chloride, (2-, Pears, Plant growth inhibitors, Plant physiology, Plant regulators, Seedlings, Succinic acid, 2,2-dimethylhydrazide, Tributyl(2,4-dichlorobenzyl)phosphonium chloride.

12250-69

TESTS AIMED AT THE DETERMINATION OF THE SENSITIVITY OF FRUIT TREES TO SIMAZINE. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)

J Dvorak

121-127

1966 SB951.U8

Chlorosis, Fruit, Herbicides, Plant injuries, Simazine, Tables (data), Trees. Czech and Russian summaries.

12251-69

HERBICIDAL ACTIVITY OF 1-(3-CHLORO-4-METHYLPHENYL)-3-METHYL-2-PYRROLIDINONE. (ABSTRACT).

Y Eshel

Weed Soc Amer Abstr 1967 MEETING:49

1967 241 W41

Chloro-4-methylphenyl)-3-methyl-2-pyrrolidinone, 1-(3-, Greenhouse culture, Herbicides, Photosynthesis, Plant biochemistry.

12252-69

CONTROL OF FUNGI WITH O,O-DIMETHYL-S-

TRICHLOROMETHYLPHOSPHORODITHIOATE PATENT 3,439,092.

R B Fearing M B McClelland

Us Patent Office Offic Gaz 861(3):935

15 Apr 1969 156.65 OF2

Dimethyl-S-trichloromethylphosphorodithioate, O,O-, Fungi, Fungicides, Organophosphorus compounds, Patents.

12253-69

EFFECT OF TRIFLURALIN AND MELOIDOGYNE HAPLA CHITWOOD ON GROWTH OF VINCA MAJOR L.

L H Fuchigami D H MacDonald

Amer Soc Horticult Sci Proc 93:686-692

Dec 1968 81 SO12

Chemical control (nematodes), Herbicides, Meloidogyne hapla, Plant growth inhibitors, Plant nematodes, Plant physiology, Trifluralin, Vinca major.

12254-69

PRELIMINARY INVESTIGATION ON WATER BERRY - ANOTHER VINE DISEASE FOUND IN MAHARASHTRA.

J B Ghugare

Horticultural Abs 38(3):680

Sep 1968 241 IM74

Berries, Climbing plants, Plant physiology, Research.

12255-69

EFFECT OF IRON AND MANGANESE DEFICIENCY ON THE CHLOROPHYLL, AMINO ACID AND ORGANIC ACID STATUS OF LEAVES OF MACADAMIA.

I M Gilfillan W W Jones

Amer Soc Horticult Sci Proc 93:210-214 REF

Dec 1968 81 SO12

Amino acids, Chlorophylls, Chlorosis, Iron, Leaves, Macadamia tetraphylla, Manganese, Plant biochemistry, Plant nutritional deficiencies.

12256-69

SIZE DIFFERENCES OF NUCLEI IN MERISTEM OF ELOEDEA TREATED WITH VARIOUS CONCENTRATIONS OF MONOCHLOROACETIC ACID, DICHLOROACETIC ACID, AND TRICHLOROACETIC ACID.

F S Gooch

La Acad Sci Proc 31:78-81

31 Dec 1968 500 L932

Cell nucleus, Chloroacetic acid, Dosage, Elodea densa, Plant biochemistry, Plant physiology, Stems, Tissues.

12257-69

CONFERRED RESISTANCE IN THE HOST.

F Grossman

World Rev Pest Contr 7(4,WINTER):176-183

REF

1968 79.8 W89

Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Plant disease resistance, Plant protection, Plant tissues.

12258-69

EFFECTS OF ALAR ON MORPHOLOGY, CHLOROPHYLL CONTENT, AND NET CO<sub>2</sub> ASSIMILATION RATE OF YOUNG APPLE TREES.

R G Halfacre J A Barden H A Rollins

Amer Soc Horticult Sci Proc 93:40-52 REF

Dec 1968 81 SO12

Apples, Carbon dioxide, Chlorophylls, Plant growth inhibitors, Plant morphology, Plant physiology, Plant translocation, Succinic acid, 2,2-dimethylhydrazide, Trees.

12259-69

ETHYLENE-ITS EFFECT ON FLOWER CROPS.

R F Hasek H A James

Florist Rev 144(3722):16-17,53-55 REF

03 Apr 1969 80 W41

Ethylene, Horticulture, Ornamental plant culture, Plant physiology, Plant protection, Poisonous gases.

12260-69

GROWTH OF YOUNG PEACH TREES AS AFFECTED BY PREPLANT FUMIGANT TREATMENTS.

R A Hayden E F Savage V E Prince

Amer Soc Horticult Sci Proc 93:119-127 REF

Dec 1968 81 SO12

Fumigants, Peaches, Pesticide application, Plant physiology, Planting, Trees. The following fumigants were studied: Fumazone, ethylene dibromide, methyl bromide, Telone, Dorlone, Mylone, Vapam, ureaformaldehyde, and D-D.

12261-69

PHOTOPERIODISM AFTER 50 YEARS.

S B Hendricks

Wash Acad Sci J 58(4):69-74 REF

Apr 1968 500 W276J

Chromoproteins, History, Photoperiodism, Plant hormones, Research.

The author briefly summarizes the research on photoperiodism since 1918. Plant hormones and their uses in agriculture are discussed.

12262-69

ORANGE FRUIT-STEM SEPARATION: CHEMICAL INFLUENCES.

H Z Hield L N Lewis R L Palmer

Calif Agr 23(5):12-13



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## CHEMISTRY

12307-69

**MALEIC HYDRAZIDE INHIBITS GROWTH OF YOUNG TUNG TREES (ALEURITES FORDII, HEMSL.).**

L L Wu J P Overcash

*Amer Soc Hortic Sci Proc* 93:235-241

Dec 1968 81 SO12

Dosage, Maleic hydrazide, Pesticide application, Plant growth inhibitors, Plant physiology, Seedlings, Spraying, Tung oil tree.

12301-69

**INTERACTION OF TRIIODOBENZOIC ACID AND INDOLE-ACETIC ACID IN DEVELOPMENT AND FLOWERING OF KALANCHOE.**

M A Zawawi R M Irving

*Amer Soc Hortic Sci Proc* 93:610-617 REF

Dec 1968 81 SO12

Indoleacetic acid, Kalanchoe, Photoperiodism, Plant morphology, Plant physiology, Temperature, Triiodobenzoic acid, 2,3,5-.

## CHEMISTRY

12302-69

**A SCREENING METHOD FOR ORGANOCHLORINE PESTICIDE RESIDUES USING THIN-LAYER CHROMATOGRAPHY.**

D C Abbott J O Tatton N F Wood

*J Chromatography* 42(1):83-88 REF

03 Jun 1969 475 J824

Chlorinated hydrocarbons, Chromatography, Fats, Pesticide analysis, Pesticides, Vegetables.

12303-69

**METHOD OF TREATING AVIAN LYMPHOMATOSIS INDUCED BY ES4 STRAIN OF LYMPHOMATOSIS VIRUS. PATENT 3,429,971.**

P Baranger

*Us Patent Office Offic Gaz* 859(4):1251

25 Apr 1969 156.65 OF2

Avian lymphomatosis, Dimethyl-delta(2,6)-octadiene-8-ol, cis-2,6-, Drugs, Methodology, Patents, Viruses.

12304-69

**GAS CHROMATOGRAPHIC CHARACTERISTICS OF CHLORDANE. II. OBSERVED COMPOSITIONAL CHANGES OF THE PESTICIDE IN AQUEOUS AND NON-AQUEOUS ENVIRONMENTS.**

A Bevene C Y Yeo

*J Chromatography* 42(1):45-52 REF

03 Jun 1969 475 J824

Chlordane, Chromatography, Heptachlor, Pesticide analysis.

12305-69

**PESTICIDES.**

S Bridges

*Chem Market Abs* 61(1):31-33

Jan 1969 309.8 C42

Agricultural industries, Antiseptics, Bactericides, Chemical control (pests), Herbicides, Insecticides, Methodology, Pesticides. New pesticide chemicals are described.

12306-69

**N,N'-ALKYLENEBIS(2-NITRO-LOWER-ALKANAMIDES). PATENT 3,429,918.**

P M Carabateas

*Us Patent Office Offic Gaz* 859(4):1242

25 Feb 1969 156.65 OF2

Amides, Anthelmintics, Hormones, Patents.

12307-69

**PHENOXY PYRIDINES AS HERBICIDES. PATENT 3,429,689.**

D Duerr O Rohr H Hebi L Ebner

*Us Patent Office Offic Gaz* 859(4):1201

25 Feb 1969 156.65 OF2

Chemical control (weeds), Herbicides, Patents, Phenols, Pyridine compounds.

*Holz Organ* 1:151-162 REF

1966 QK604.H6

Plant biochemistry, Plant disease resistance, Plant physiology, Wood, Wood destroying fungi, Wood durability, German and French summaries.

12286-69

**FOLIAR ABSORPTION OF IRON BY CHRYSANTHEMUM AS INFLUENCED BY LIME-INDUCED CHLOROSIS.**

R B Rutland M J Bukovac

*Amer Soc Hortic Sci Proc* 93:569-575 REF

Dec 1968 81 SO12

Absorption, Ammonium citrate, dibasic, Calcium carbonate, Chlorosis, Chrysanthemum morifolium, Ethylenediaminetetraacetic acid, Foliar application, Hydrogen-ion concentration, Iron, Lime.

12287-69

**EFFECTS OF FOUR HERBICIDES ON GROWTH AND YIELD OF ORANGE TREES.**

G F Ryan D W Kretchman

*Amer Soc Hortic Sci Proc* 93:159-165 REF

Dec 1968 81 SO12

Crop yields, Dalapon, Diuron, Ethyl N,N-dipropylthiocarbamate, Herbicides, Oranges, Plant physiology, Simazine, Trees.

12288-69

**EFFECT OF SOME VITAMINS ON GROWTH OF FOMES LIVIDUS KALCHBR. IN CULTURE.**

N Samajpati S Banerjee

*Indian J Mycol Res* 4(112):69-71 REF

1966 450 IN29

Biotin, Culture media, Fomes lvidus, Growth factors, Inositol, Plant growth inhibitors, Plant physiology, Thiamine, Vitamin b6, Vitamins.

12289-69

**THE EFFECT OF GIBBERELLIC ACID ON DORMANCY IN SOME WOOD SPECIES.**

J Sebanek

*Brno Acta Univ Agr Fac Agron* 15(1):15-20 REF

1967 S13.B7

Gibberellic acid, Plant dormancy, Plant physiology, Plant regulators, Wood. Czechoslovakian summary.

Gibberellin was applied to the following plant species: Aesculus hippocastanum, Acer pseudoplatanus, Acer platanoides, Piros communis, Tilia platyphyllos, Robinia pseudo-acacia, Corylus avellana, Syringa vulgaris and Malus communis.

12290-69

**ON THE DECOMPOSITION OF WOOD CELLULOSE BY ORGANISMS. (GE)**

K Seifert

*Holz Organ* 1:103-117 REF

1966 QK604.H6

Cellulose, Decomposition, Fungus diseases (plants), Hydrolysis, Insect pests, Plant biochemistry, Sugars, Wood. English and French summaries.

12291-69

**ORGANISM INTERACTIONS IN DECAY AND DISCOLORATION IN BEECH, BIRCH, AND MAPLE.**

A L Shigo

*Holz Organ* 1:309-324 REF

1966 QK604.H6

Acer, Acer rubrum, Acer saccharum, Bacterial diseases (plants), Betula, Betula alleghaniensis, Betula papyrifera, Ecology, Fagus, Fagus grandifolia, Fungus diseases (plants), Plant physiology, Wood decay, Wood destroying fungi. German and French summaries

The bacteria and fungi studied included the following: Phialophora spp., Hypoxylon spp., Trichocomoides canadense, Cytospora decipiens, Poria obliqua, Polyporus glomeratus, Fomes igniaris, and Pseudomonas spp.

12292-69

**THE EFFECT OF HERBICIDES ON QUALITY OF TOMATO AND SNAP BEANS.**

W A Sistrunk R Talbert

*Amer Soc Hortic Sci Proc* 93:854-859

Dec 1968 81 SO12

12308-69  
**1-HALO-1-NITRO DISULFIDES. PATENT**  
 3,429,931.  
 J G E Fcnyes G K Kohn  
*Us Patent Office Offic Gaz 859(4):1244*  
 25 Feb 1969 156.65 OF2  
 Fungicides, Halogen compounds, Patents, Sulfides.

12309-69  
**STUDY ON THE DETERMINATION OF THE MOISTURE CONTENT IN THE FUNGICIDES WITH A DITHIOCARBAMIC BASE. (FR)**  
 P Grandjean  
*Bull Recherch Agron Gembloux (N s)3(1):101-127 REF*  
 1968 SS.B8  
 Dithiocarbamic acid, Ferbam, Fungicides, Maneb, Methodology, Moisture content, Thiocarbamates, Thiram, Zineb, Ziram.

12310-69  
**EFFECT OF AFLATOXIN AND BENZOPYRENE PRETREATMENT UPON THE KINETICS OF BENZOPYRENE HYDROXYLASE.**  
 H L Gurtoo T C Campbell R E Webb K M Plowman  
*Biochem Biophys Res Commun 31(4):588*  
 23 May 1968 442.8 B5236  
 Aflatoxin, Aspergillus flavus, Benzopyrene, Enzymes, Kinetics, Research.

12311-69  
**QUANTITATIVE AND QUALITATIVE DETERMINATION OF DINITRO-O-CRESOL (DNOC) IN SOIL. (00GE)**  
 V K Hurle  
*Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 75(1):29-32*  
 Jan 1968 446.8 Z3  
 Benzene, Chromatography, Dinitrocresol, Soils, Spectrophotometry. English summary

12312-69  
**PERSISTANCE OF CIPC IN SOIL TREATED WITH METHYLCARBAMATE PESTICIDES. (ABSTRACT).**  
 D D Kaufman P C Kearney  
*Weed Soc Amer Abstr 1967 MEETING:74*  
 1967 241 W41  
 Biological assay, Carbamates, Chlorinated hydrocarbons, Chlorpropham, Herbicide residues, Pesticides, Soil sanitation.

12313-69  
**METHOD FOR EXTRACTING THE ANTIBIOTIC LEVORIN FROM A CULTURE MEDIUM. PATENT 3,439,090.**  
 V O Kuljbach L B Sokolov J F Sveshnikov O A Kuznetsova G N Malinovskaja V J Raigorodskaja G V Kholodova  
*Us Patent Office Offic Gaz 861(3):934-935*  
 15 Apr 1969 156.65 OF2  
 Actinomycetes levoris, Antibiotics, Bacteria, Culture media, Diatomaceous earth, Extracts, Levorin, Methodology, Patents.

12314-69  
**NOTE CONCERNING SEVERAL NEW HERBICIDES FROM THE GERMAN DEMOCRATIC REPUBLIC. IN: COLLECTION OF REPORTS GIVEN AT THE INTERNATIONAL HERBICIDE CONFERENCE, PRAGUE, JUNE 21-24, 1966. (GE)**  
 H Kurth  
 115-116  
 1966 SB951.U8  
 Chemical control (weeds), Chemistry, Herbicides, Phenoxyacetic acid, Phenoxybutyric acid, Phenoxypyropionic acid. Czech and Russian summaries.

12315-69  
**CIRCULAR DICHROISM OF GIBBERELLINS AND THE APPLICATION OF THE LACTONE CHROMOPHORE TO THEIR STRUCTURAL ELUCIDATION.**  
 H Meguro K Tuzimura N Takahashi

**Tetrahedron Lett (60):6305-6308**  
 Dec 1968 385 T29  
 Chromophores, Gibberellins, Lactones, Light, Polarization, Stereochemistry.

12316-69  
**2-METHYLENENAPHTHO(2,3-D)-1,3-DITHIOLE-4,9-DIONES. PATENT 3,429,895.**  
 W L Mosby  
*Us Patent Office Offic Gaz 859(4):1238*  
 25 Feb 1969 156.65 OF2  
 Dyes, Herbicides, Naphthoquinone compounds, Patents, Pigments.

12317-69  
**ORGANOTIN-, ARSENIC AND ANTIMONY 1,1-ETHYLENE DITHIOLATES. PATENT 3,429,905.**  
 W L Mosby  
*Us Patent Office Offic Gaz 859(4):1240*  
 25 Feb 1969 156.65 OF2  
 Antimony compounds, Arsenic compounds, Bactericides, Fungicides, Herbicides, Organotin compounds, Patents.

12318-69  
**HERBICIDAL ALPHA-HALO-N-CYCLOHEXYL-ACETAMIDES. PATENT 3,429,690.**  
 J F Olin  
*Us Patent Office Offic Gaz 859(4):1201*  
 25 Feb 1969 156.65 OF2  
 Butyl-6'-methylcyclohexyl)-2-chloro-acetamide, N-(2'-tert-, Chemical control (weeds), Halogen compounds, Herbicides, Patents.

12319-69  
**THE PATHOGENICITY OF STAPHYLOCOCCI AND THEIR SENSITIVITY TO 2,4-DINITROPHENOL. (RUS)**  
 I I Panyshova  
*Zhur Mikrobiol Epidemiol Immunobiol 3(0):93-94*  
 1968 448.3 Z4  
 Bacteria, Biochemistry, Blood, Blood plasma, Cells, Dinitrophenol, 2,4-, Hemolysins, Lecithins, Staphylococcus. Summary in English

12320-69  
**AMINE CYANOFERRATES AND METHODS FOR PREPARING SAME. PATENT 3,429,907.**  
 G P Papp J W Clapp  
*Us Patent Office Offic Gaz 859(4):1240*  
 25 Feb 1969 156.65 OF2  
 Alcicides, Amines, Iron compounds, Methodology, Patents.

12321-69  
**INFLUENCE OF QUATERNARY STRUCTURE ON ANTIGENIC CONFIGURATION OF TOBACCO MOSAIC VIRUS. (ABSTRACT).**  
 I Rappaport M Zaitlin  
*Fed Amer Soc Exp Biol Fed Proc 27(2):616*  
 Mar 1968 442.9 F31P  
 Antigens, Electrophoresis, Mosaic, Peptides, Physical chemistry, Proteins, Tobacco, Virus diseases (plants).

12322-69  
**SECONDARY AMINOALCOHOL-BORIC ACID REACTION PRODUCT AND PRODUCTION THEREOF. PATENT 3,429,909.**  
 D Schuster  
*Us Patent Office Offic Gaz 859(4):1240*  
 25 Feb 1969 156.65 OF2  
 Amines, Bactericides, Boric acid, Patents.

12323-69  
**MEASURING THE EFFECT OF AIR POLLUTANTS ON BACTERIAL LUMINESCENCE: A SIMPLIFIED PROCEDURE.**  
 W F Serat J Kyono P K Mueller  
*Atmos Environ 3(3):303-309*  
 May 1969 TD881.A8  
 Air pollution, Bacteria, Luminescence.

12324-69

**EFFECT OF INTRODUCING A SULPHUR BRIDGE ON THE HERBICIDAL ACTIVITY OF DIQUAT.**  
 L A Summers  
*Nature 214(5086):381-382 REF*  
 22 Apr 1967 472 N21  
 Chemical control (weeds), Chemistry, Diquat, Herbicides, Paraquat, Sulfur.

12325-69  
**METAL CHELATES OF BICYCLONONANEDIONE. PATENT 3,429,906.**  
 A A Swigar  
*Us Patent Office Offic Gaz 859(4):1240*  
 25 Feb 1969 156.65 OF2  
 Alcicides, Bactericides, Bicyclononane compounds, Chelation, Fungicides, Metals, Patents.

12326-69  
**A NEW SPINDLE VIRUS OBSERVED IN A LUCANID (COLEOPTERA) OF MADAGASCAR. (FR)**  
 C Vago P Monserrat J L Duthoit A Amargier G Meynadier Et Al  
*Acad Sci Compt Rend Ser D Sci Nat 266(15, 1ST SEMESTER):1621-1623*  
 08 Apr 1968 505 P21  
 Insect diseases, Lucanidae, Viruses.

## ENGINEERING

12327-69  
**THIS LV RIG FIGHTS WINDS.**  
 Anonymous  
*Cotton 5(5):12-13,28*  
 May 1969 72.8 C8225  
 Chemical control (insects), Cotton, Disulfoton, Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate, 3 -, Insecticides, Organophosphorus compounds, Spraying equipment, Weather, Wind.

12328-69  
**INSECT-PROOFING DURING BUILDING CONSTRUCTION.**  
 W Ebeling Wagner D A Reierson  
*Calif Agr 23(5):4-7*  
 May 1969 100 C12CAG  
 Blattidae, Boric acid, Buildings, Chlorinated hydrocarbons, Dusting, Spraying, Termites, Wood-destroying insects.

## INDUSTRY

### ECONOMICS

12329-69  
**1968 COSTS TO PRODUCE AVOCADOS IN SAN DIEGO COUNTY.**  
 C D Gustafson R C Rock  
*Calif Avocado Soc Yearbook 52:91-93*  
 1968 81 C128  
 Avocados, Costs, Crops, Production economics.

### EDUCATION

12330-69  
**DELSEA OF CAMDEN, N. J.-MOUTH-TO-MOUTH PEST CONTROL.**  
 Anonymous  
*Pest Contr 37(1):14,16,18,20,22*  
 Jan 1969 449.8 EX8  
 Advertising, Education, Insect control, Pest control.

The author discusses a commercial exterminating company's advertisement campaign as a public education source for insect control.

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